



Appendix B

Test Data for SZEM170300153901



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1 Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	ERP[dB]	Limit[dBm]	Verdict
GSM 850	GSM/TM1	LCH	33.33	32.83	38.45	PASS
		MCH	33.19	32.69	38.45	PASS
		HCH	33.28	32.78	38.45	PASS
	GSM/TM2	LCH	27.55	27.05	38.45	PASS
		MCH	27.52	27.02	38.45	PASS
		HCH	27.40	26.90	38.45	PASS

Note:

a: For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS

Test Band	Test Mode	Test Channel	Measured[dB]	EIRP[dB]	Limit[dBm]	Verdict
GSM 1900	GSM/TM1	LCH	30.47	31.97	33	PASS
		MCH	30.46	31.96	33	PASS
		HCH	30.12	31.62	33	PASS
	GSM/TM2	LCH	26.45	27.95	33	PASS
		MCH	26.57	28.07	33	PASS
		HCH	26.51	28.01	33	PASS

Note:

a: For getting the ERP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS

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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
GSM 850	GSM/TM1	LCH	6.49	13	PASS
		MCH	6.67	13	PASS
		HCH	6.52	13	PASS
	GSM/TM2	LCH	9.45	13	PASS
		MCH	9.39	13	PASS
		HCH	9.16	13	PASS
GSM 1900	GSM/TM1	LCH	6.52	13	PASS
		MCH	6.58	13	PASS
		HCH	6.58	13	PASS
	GSM/TM2	LCH	8.99	13	PASS
		MCH	9.25	13	PASS
		HCH	9.42	13	PASS



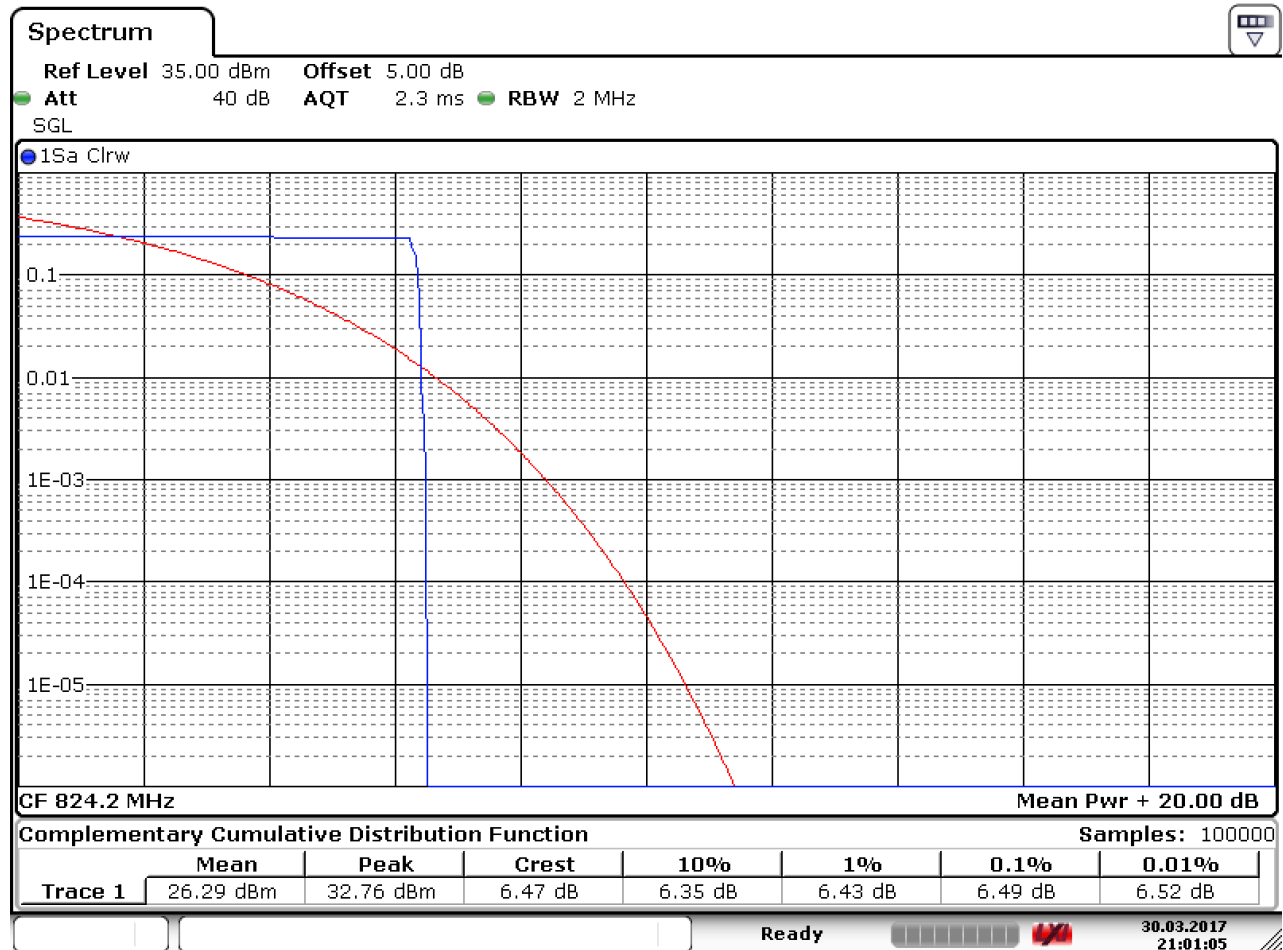
Part II - Test Plots

2.1 For GSM

2.1.1 Test Band = GSM 850

2.1.1.1 Test Mode = GSM/TM1

2.1.1.1.1 Test Channel = LCH

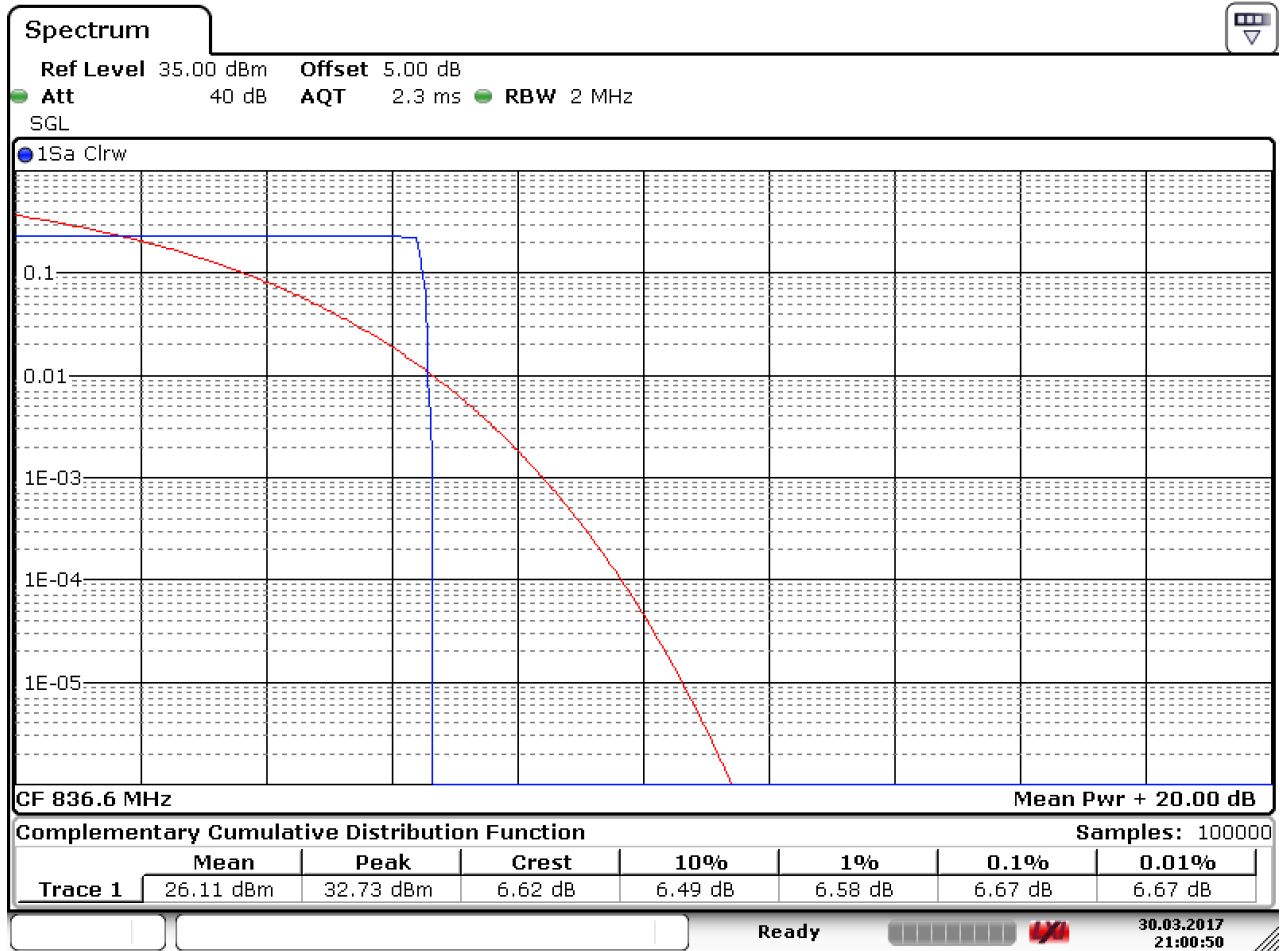


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2.1.1.1.2 Test Channel = MCH

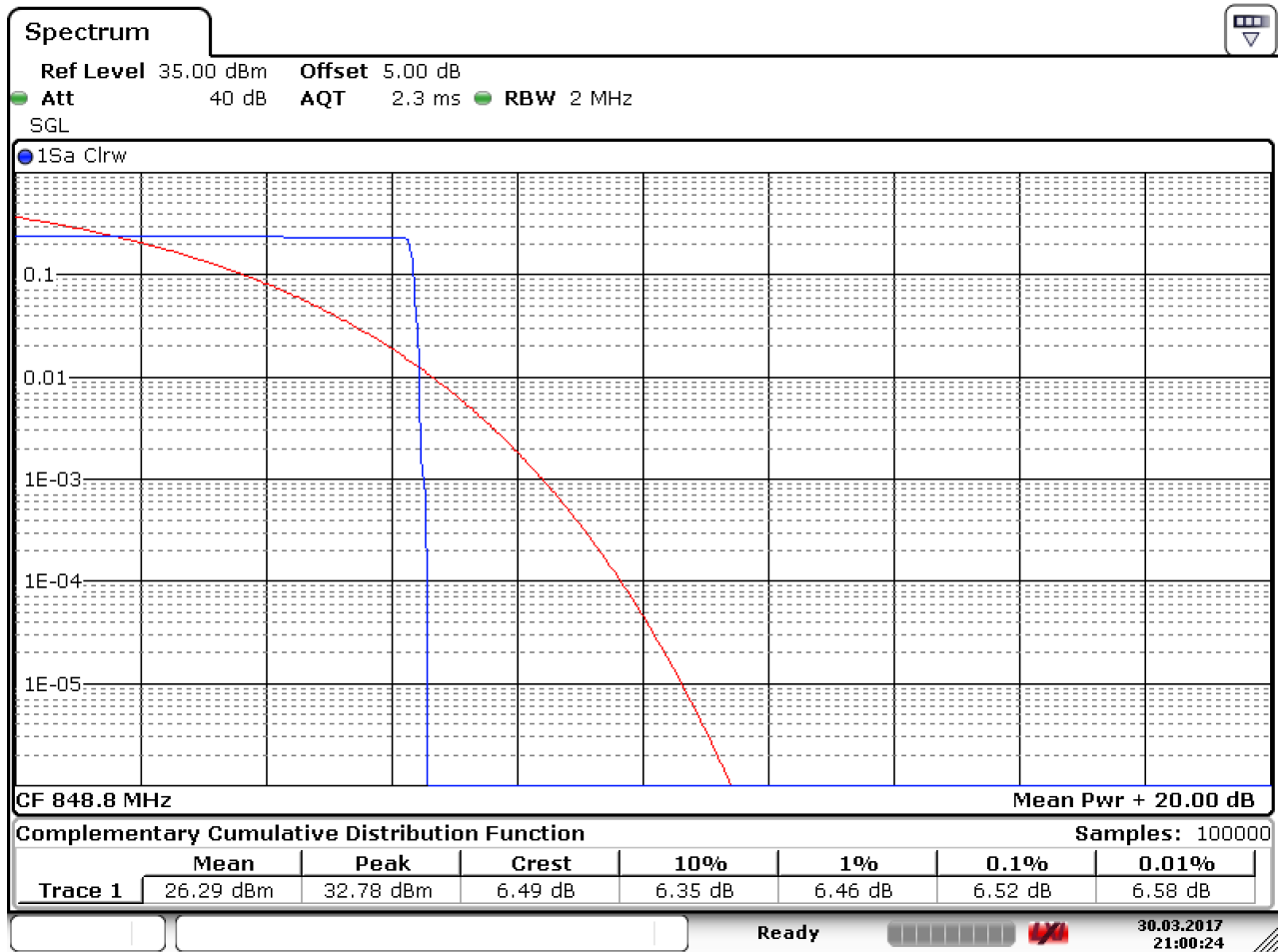


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2.1.1.1.3 Test Channel = HCH



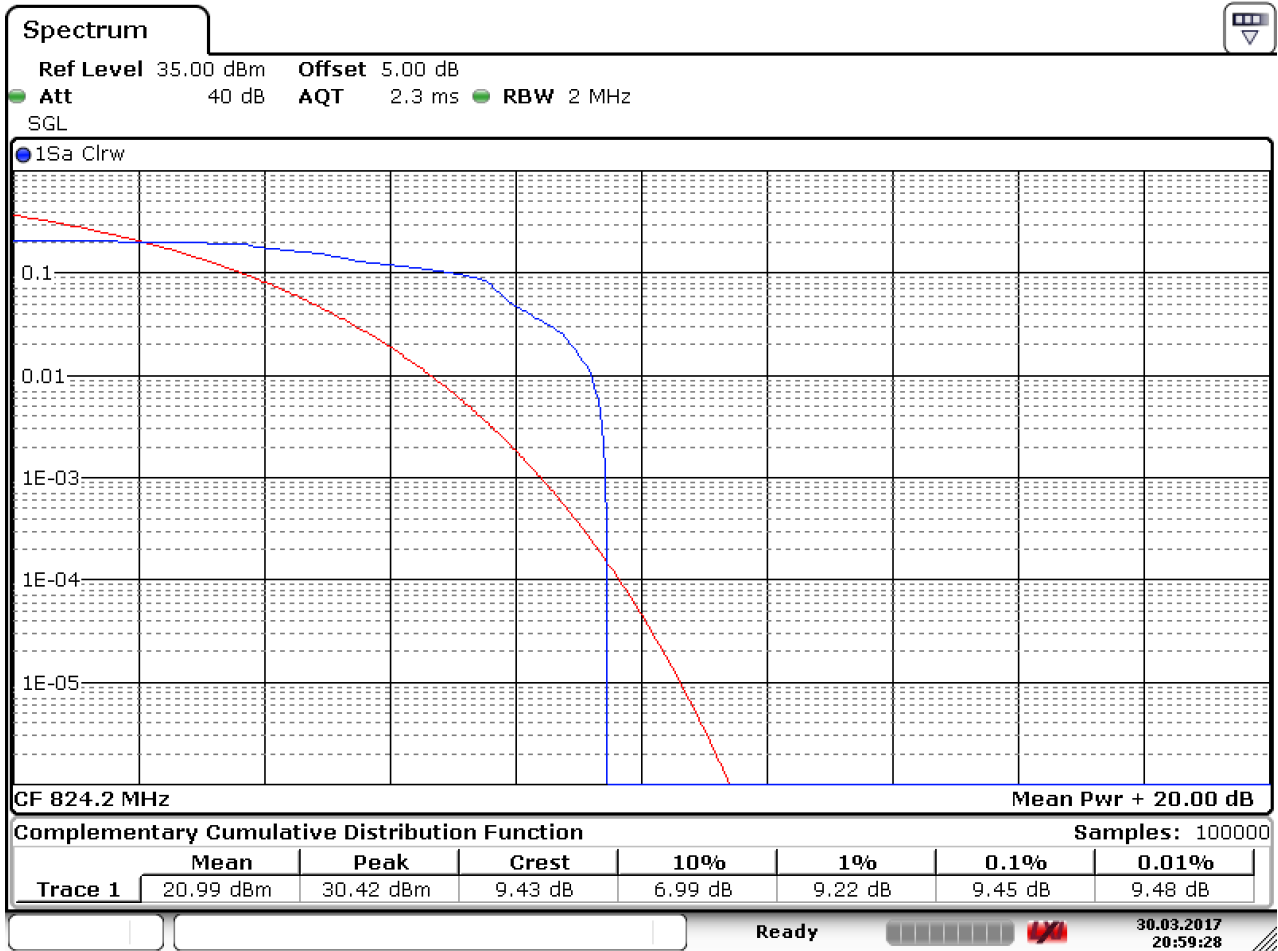
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2.1.1.2 Test Mode = GSM/TM2

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2.1.1.2.1 Test Channel = LCH

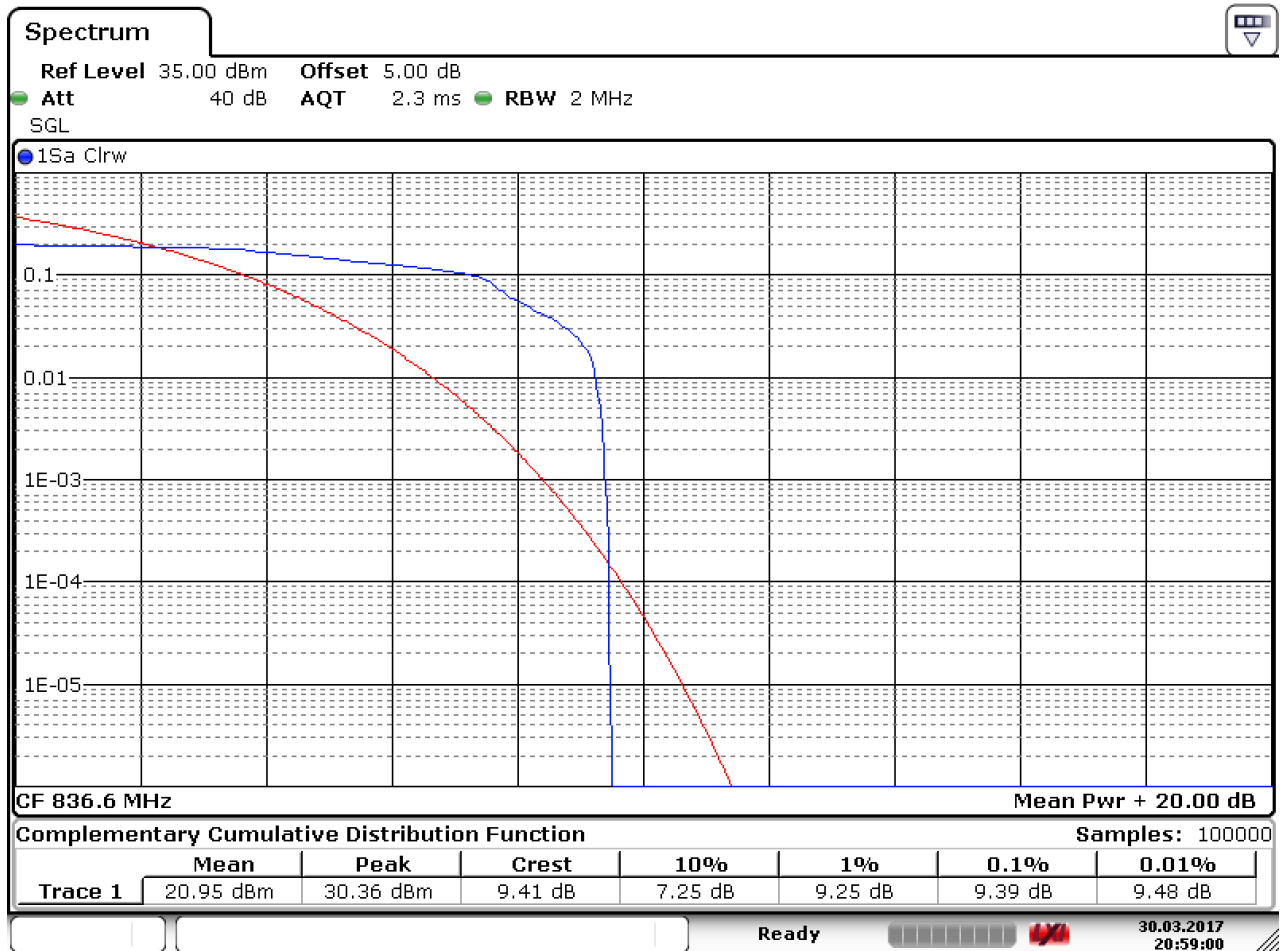


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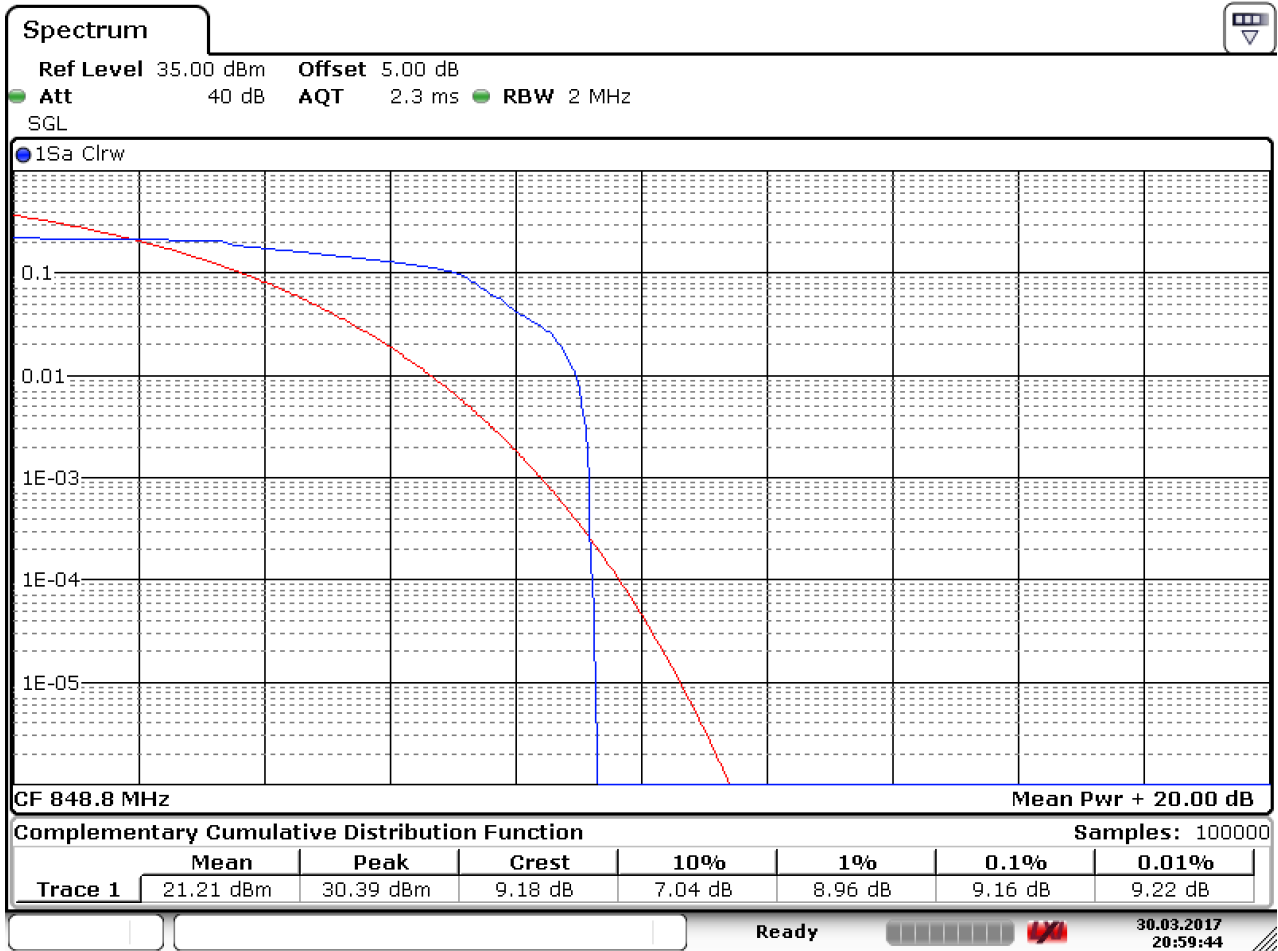
2.1.1.2.2 Test Channel = MCH



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2.1.1.2.3 Test Channel = HCH



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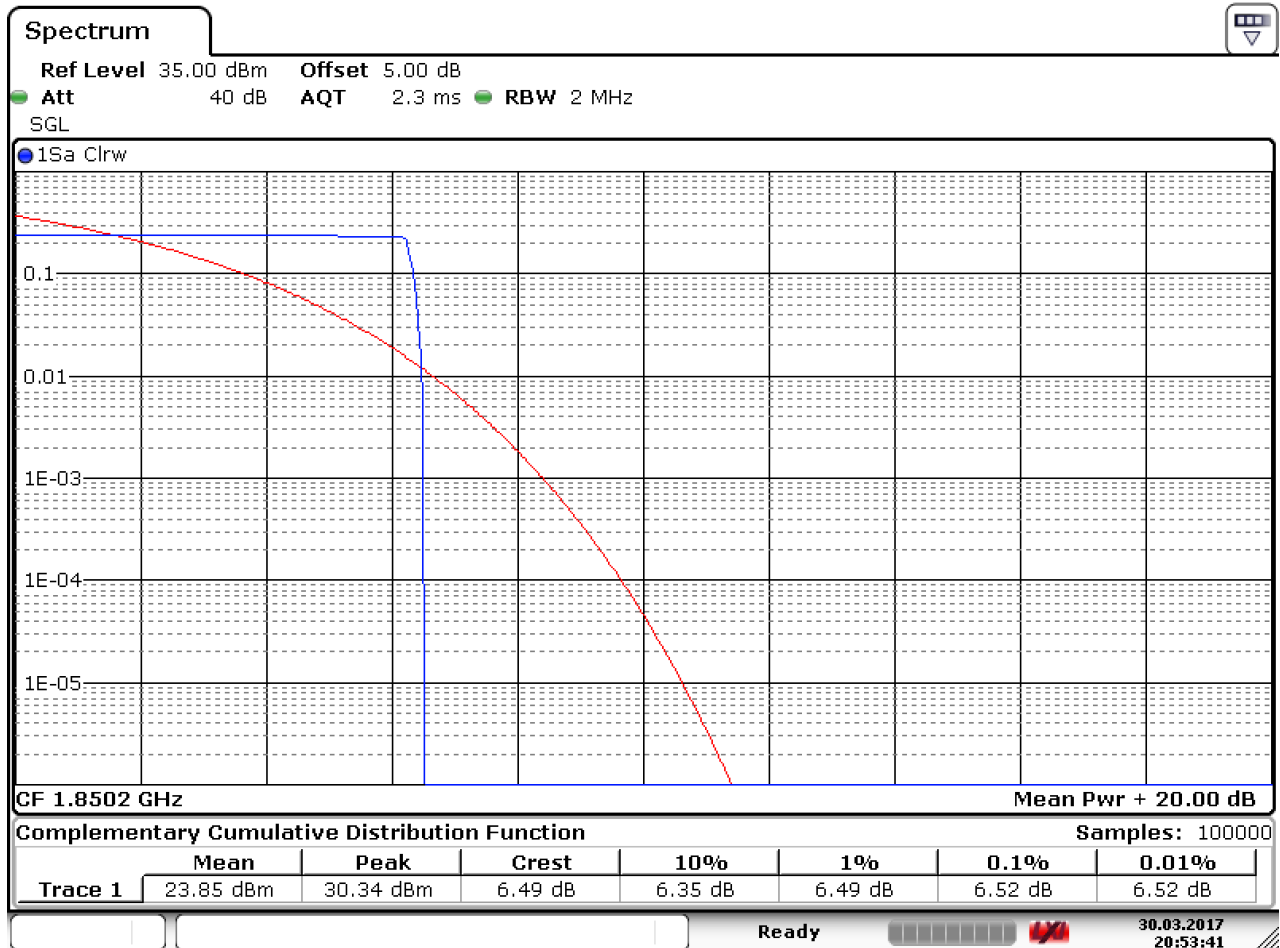
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2.1.2 Test Band = GSM 1900

2.1.2.1 Test Mode = GSM/TM1

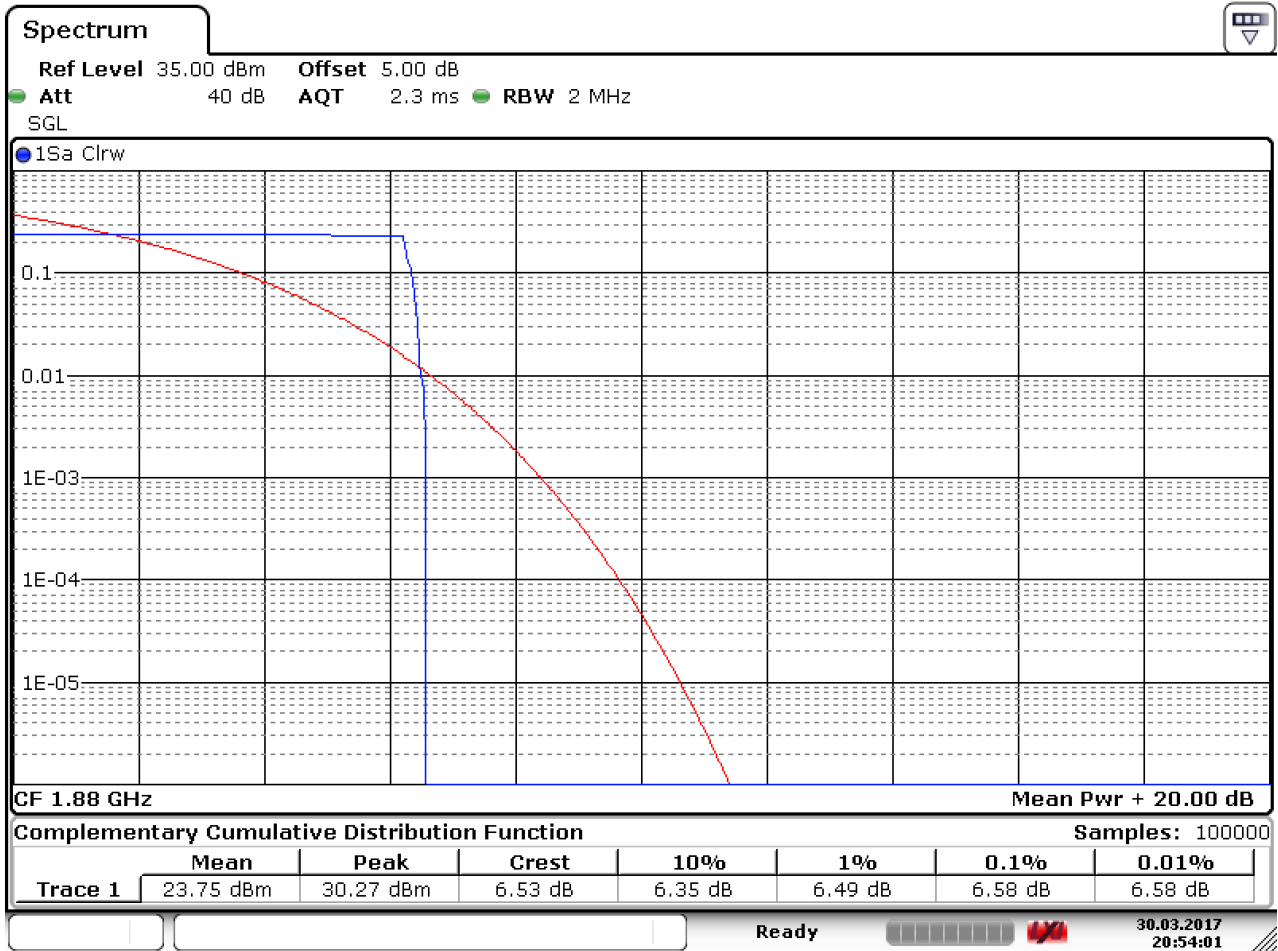
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2.1.2.1.2 Test Channel = MCH

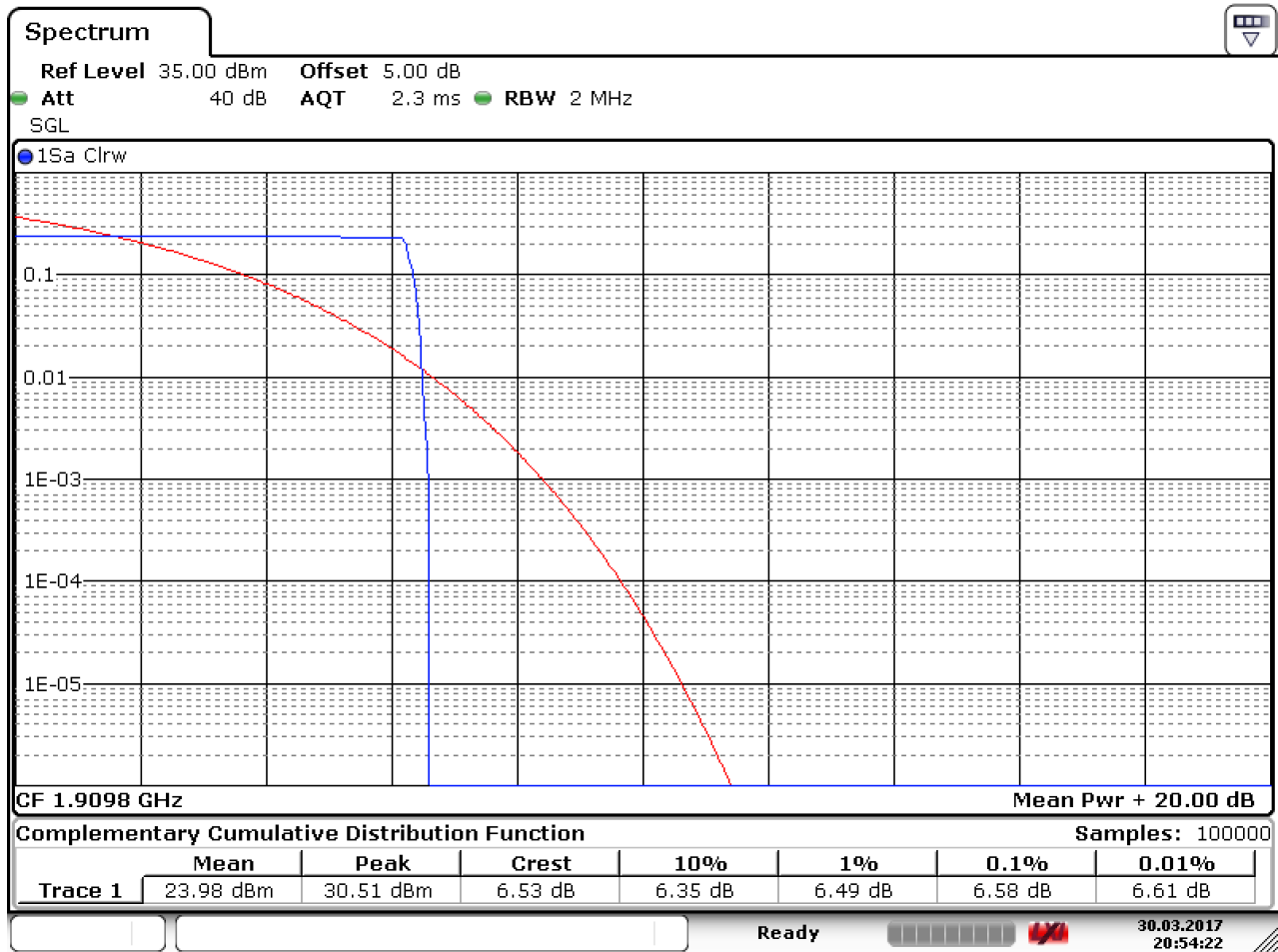


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2.1.2.1.3 Test Channel = HCH



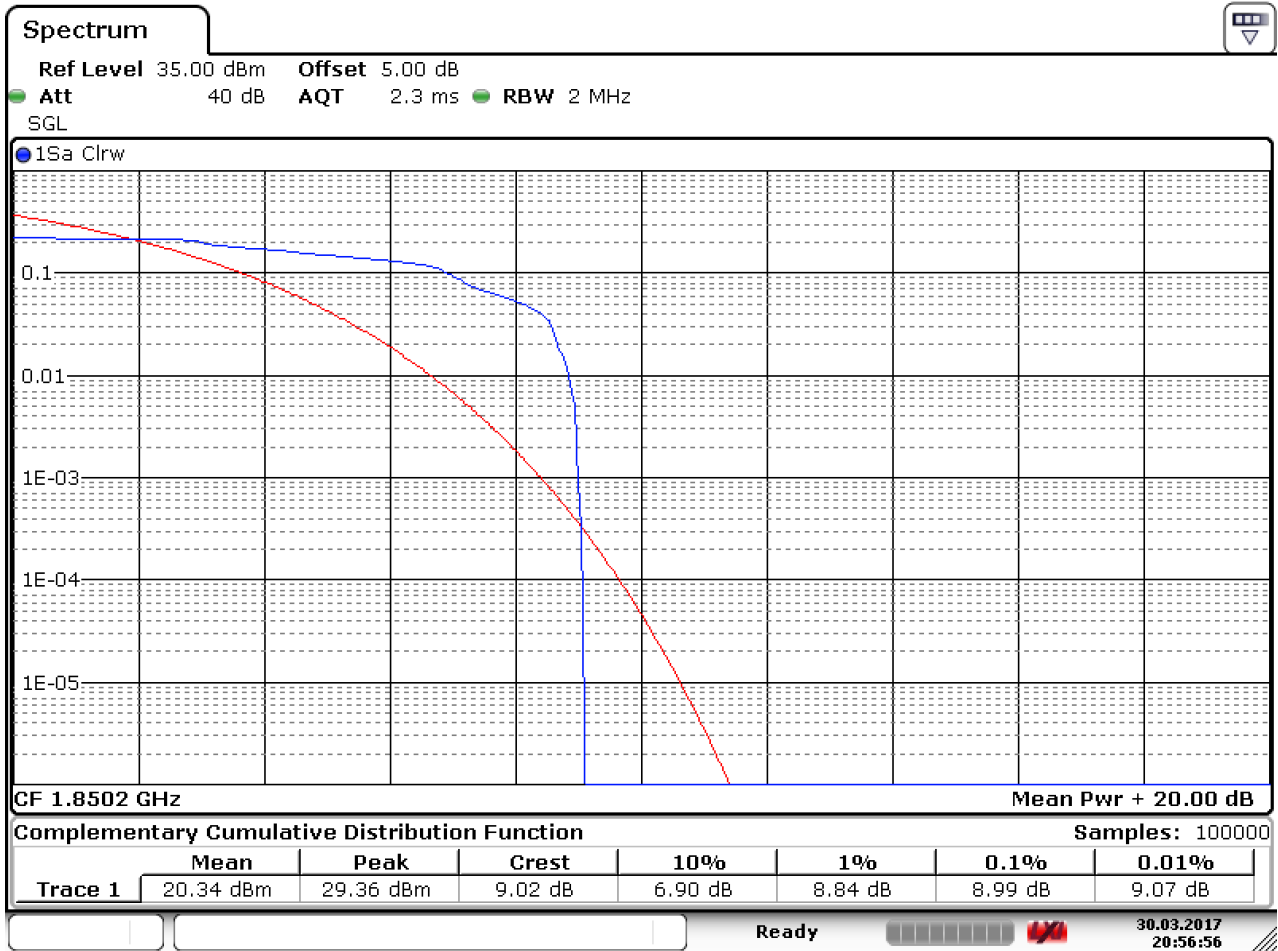
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2.1.2.2 Test Mode = GSM/TM2

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2.1.2.2.1 Test Channel = LCH

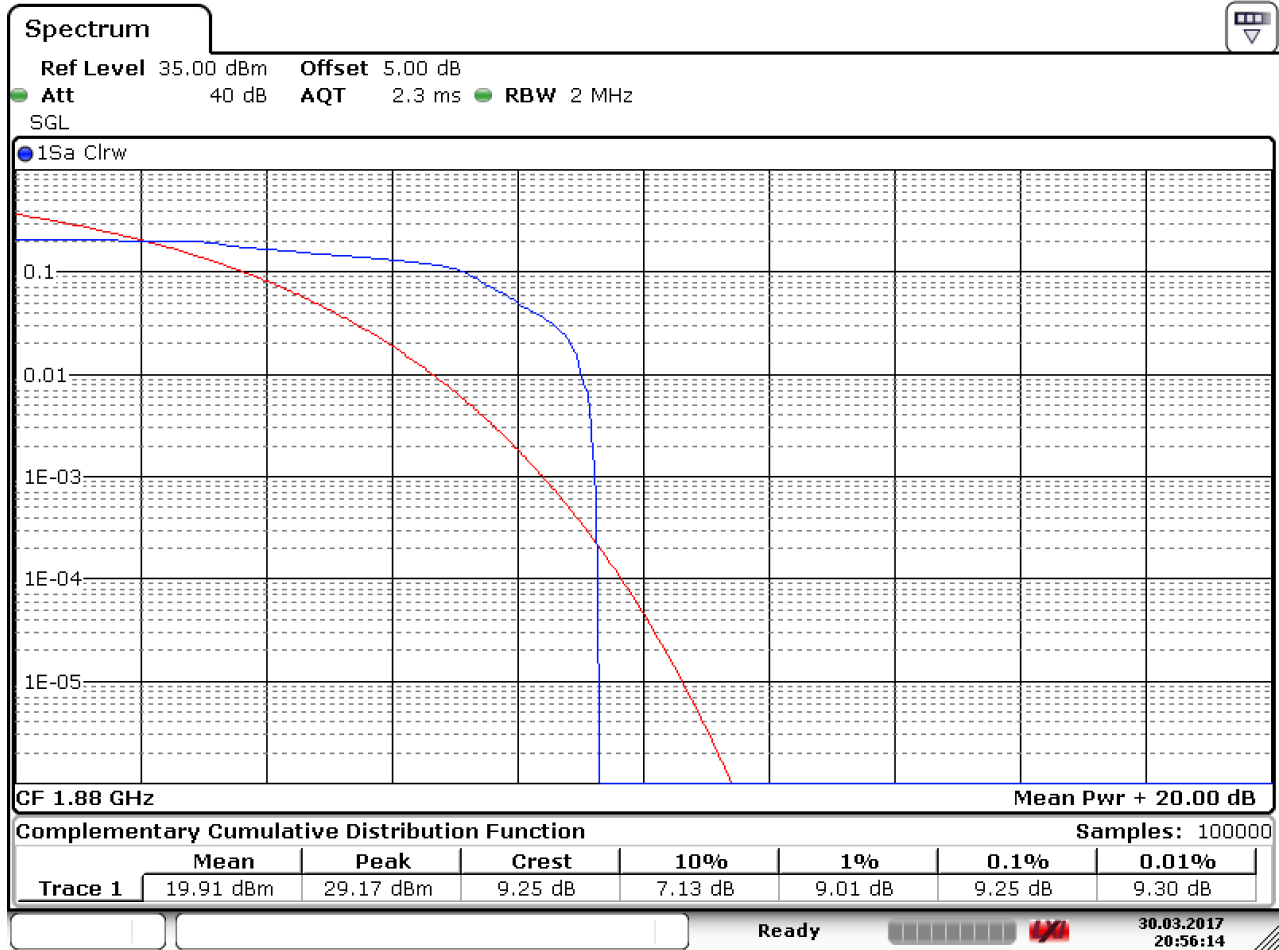


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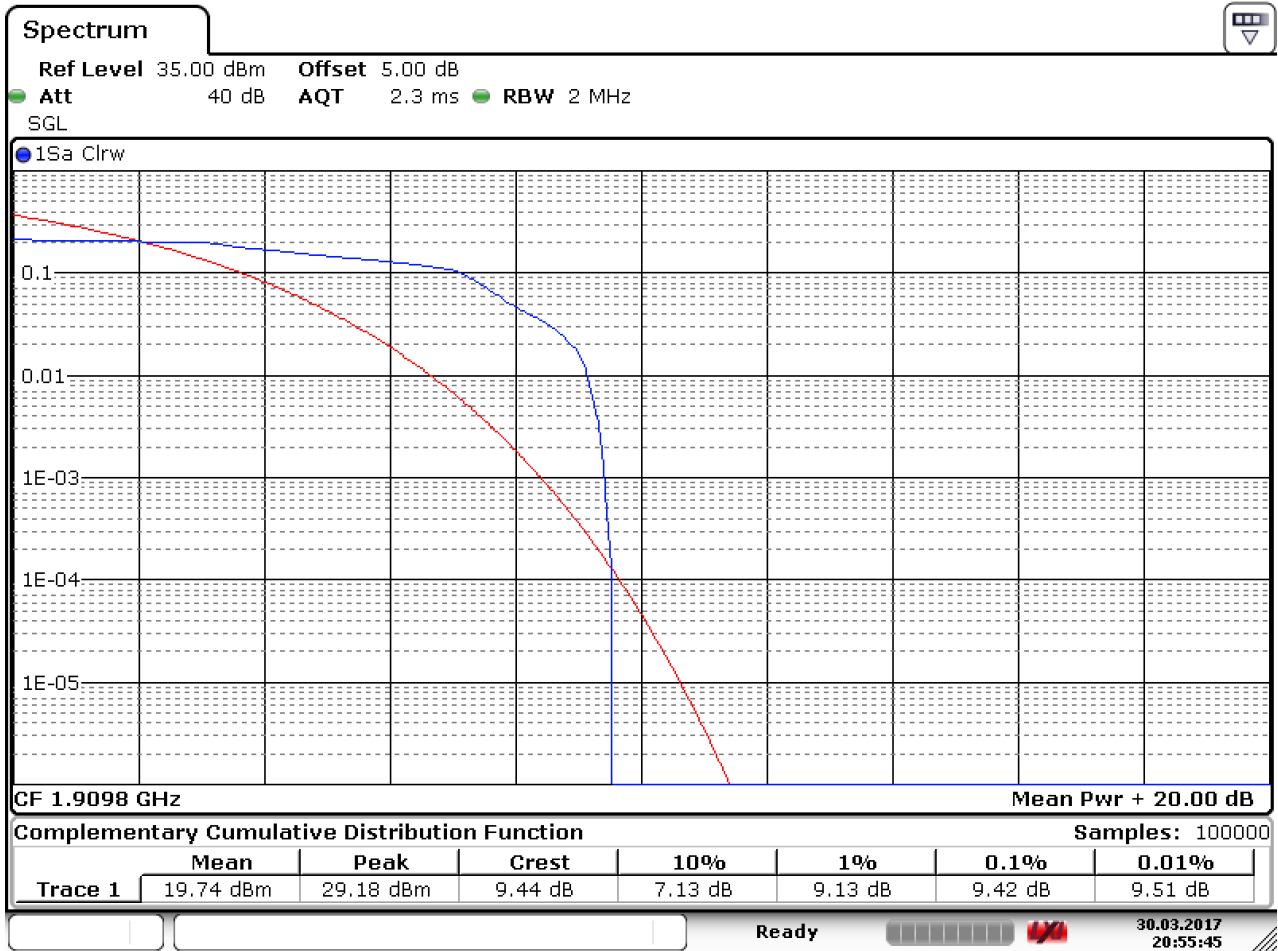
2.1.2.2.2 Test Channel = MCH



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2.1.2.2.3 Test Channel = HCH



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3 Modulation Characteristics

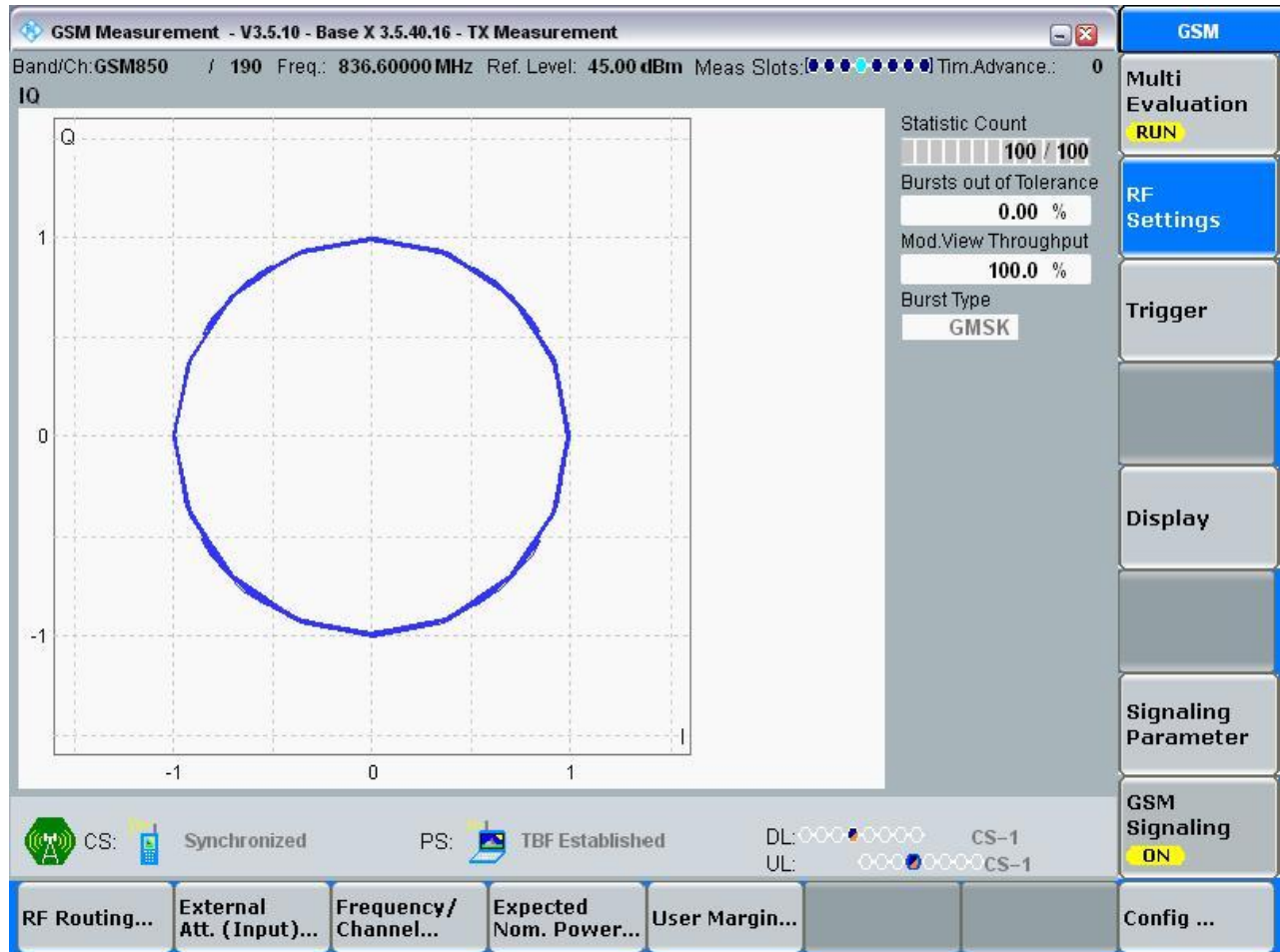
Part I - Test Plots

3.1 For GSM

3.1.1 Test Band = GSM 850

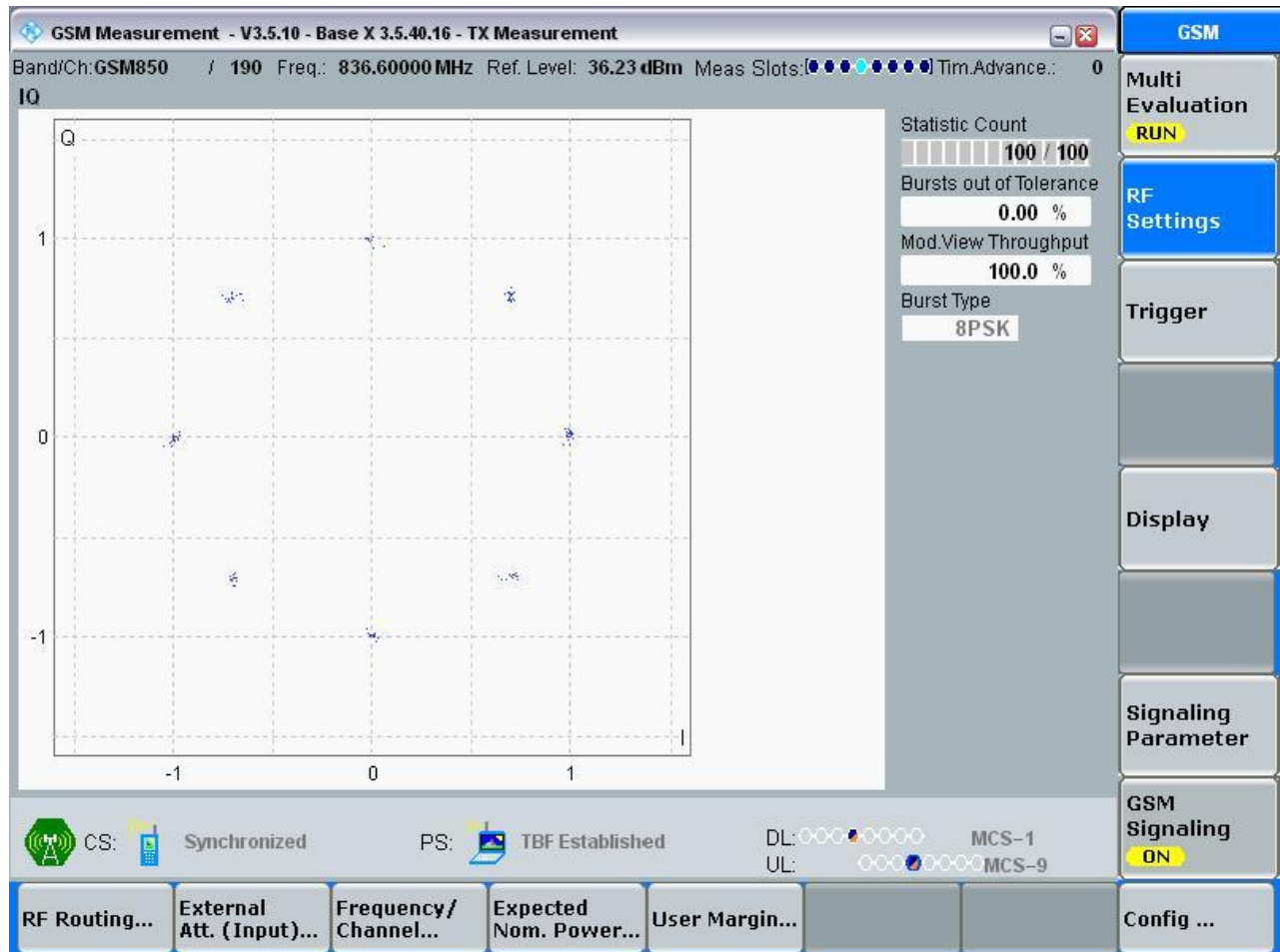
3.1.1.1 Test Mode = GSM/TM1

3.1.1.1.1 Test Channel = MCH





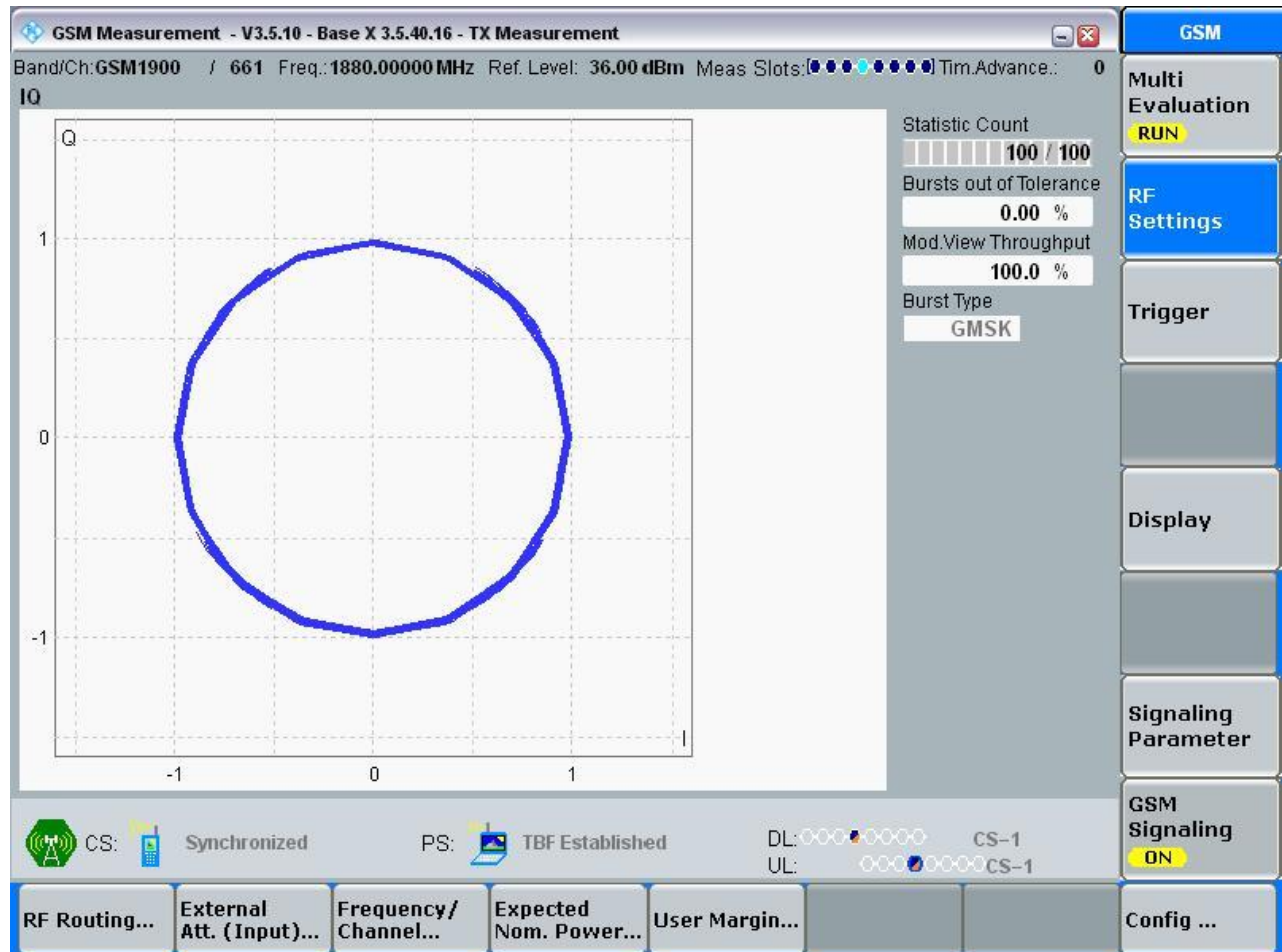
3.1.1.2 Test Mode = GSM/TM2
3.1.1.2.1 Test Channel = MCH



3.1.2 Test Band = GSM 1900

3.1.2.1 Test Mode = GSM/TM1

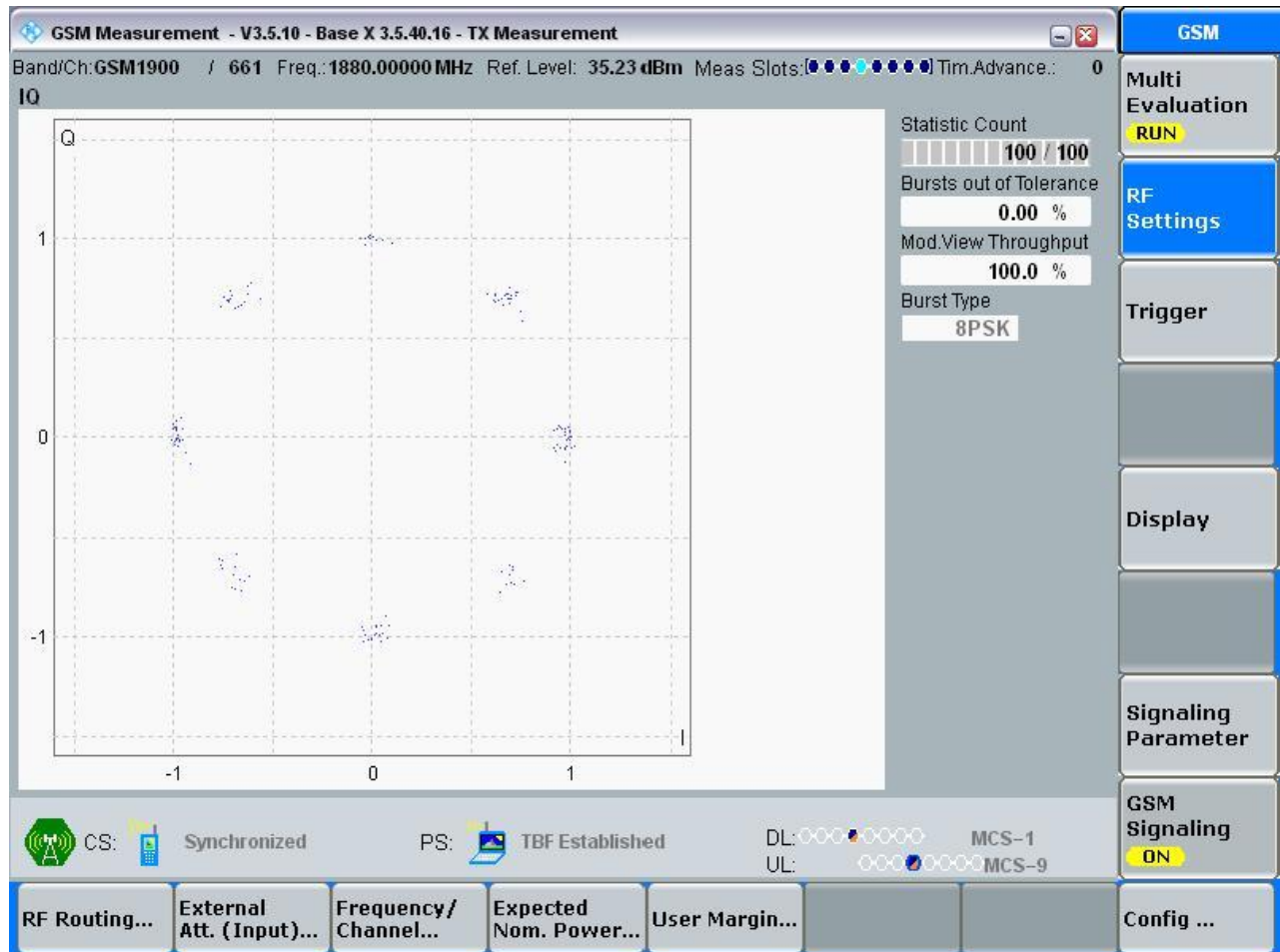
3.1.2.1.1 Test Channel = MCH





3.1.2.2 Test Mode = GSM/TM2

3.1.2.2.1 Test Channel = MCH





4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [kHz]	Verdict
GSM 850	UMTS/TM1	LCH	242.8	317.7	PASS
		MCH	242.8	319.7	PASS
		HCH	240.8	317.7	PASS
	UMTS/TM2	LCH	245.8	314.7	PASS
		MCH	244.8	315.7	PASS
		HCH	245.8	313.7	PASS
GSM 1900	UMTS/TM1	LCH	242.8	318.7	PASS
		MCH	241.8	318.7	PASS
		HCH	243.8	317.7	PASS
	UMTS/TM2	LCH	243.8	314.7	PASS
		MCH	242.8	313.7	PASS
		HCH	244.8	313.7	PASS

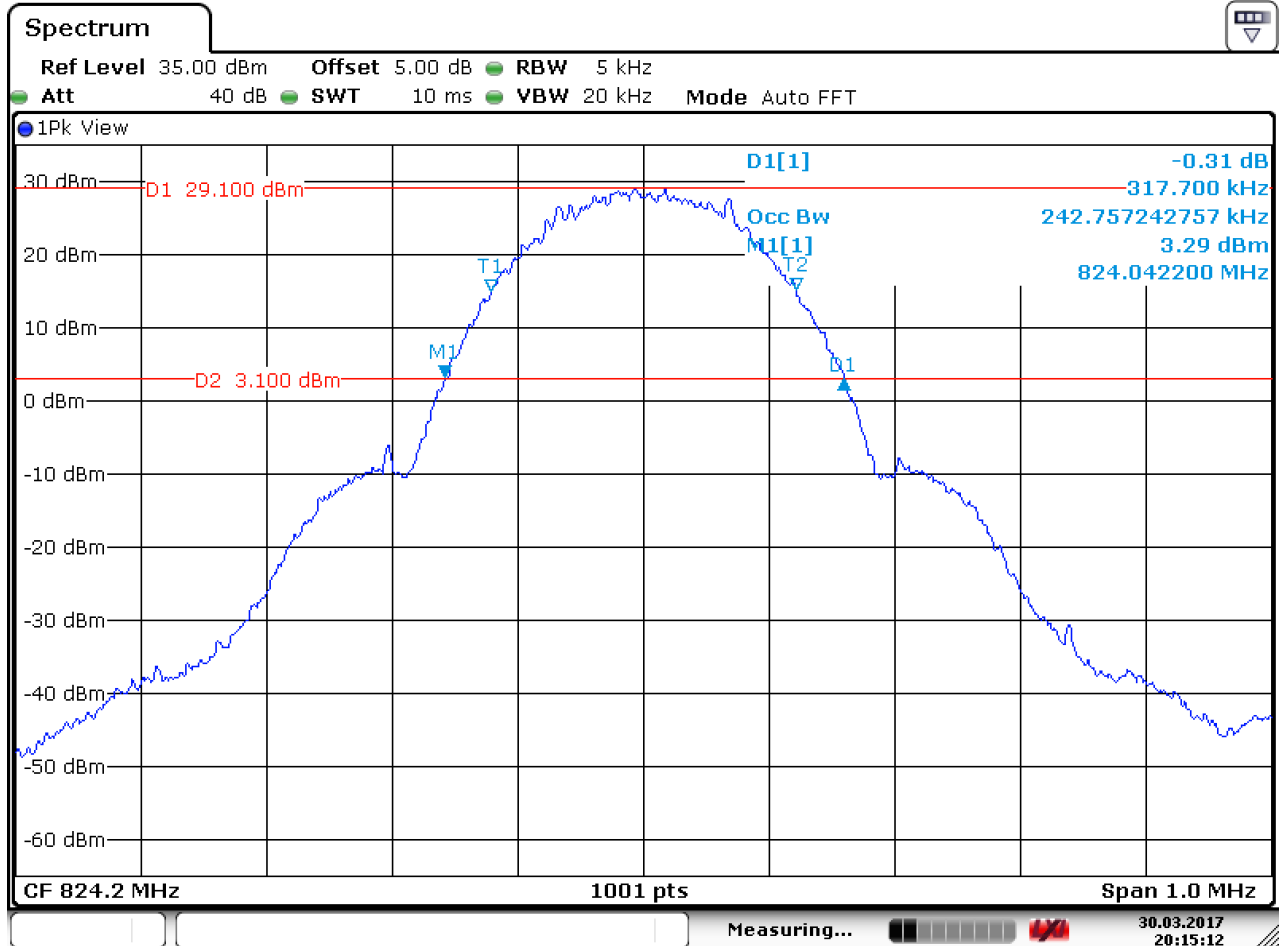


4.1 For GSM

4.1.1 Test Band = GSM 850

4.1.1.1 Test Mode = GSM/TM1

4.1.1.1.1 Test Channel = LCH

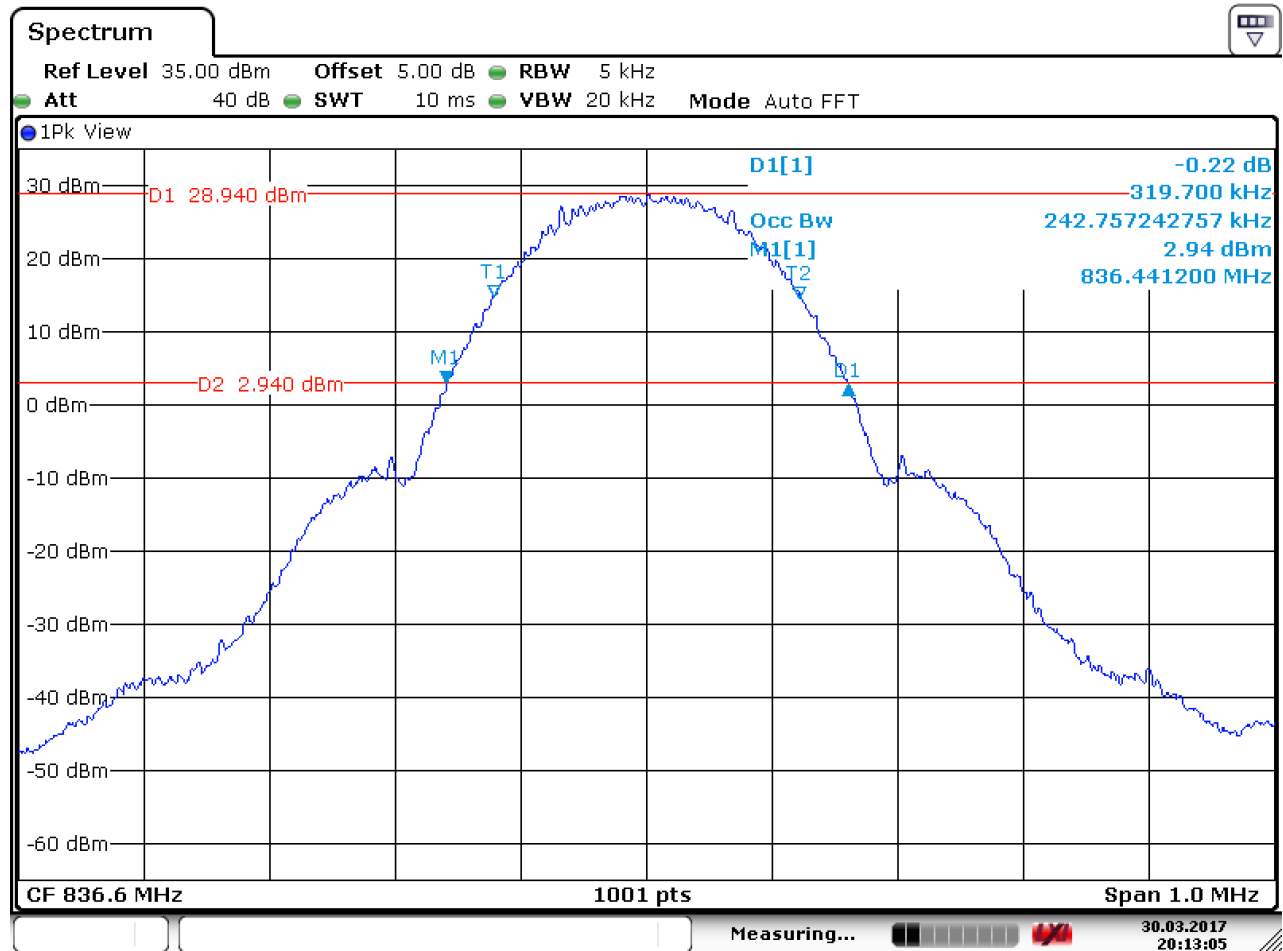


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4.1.1.1.2 Test Channel = MCH

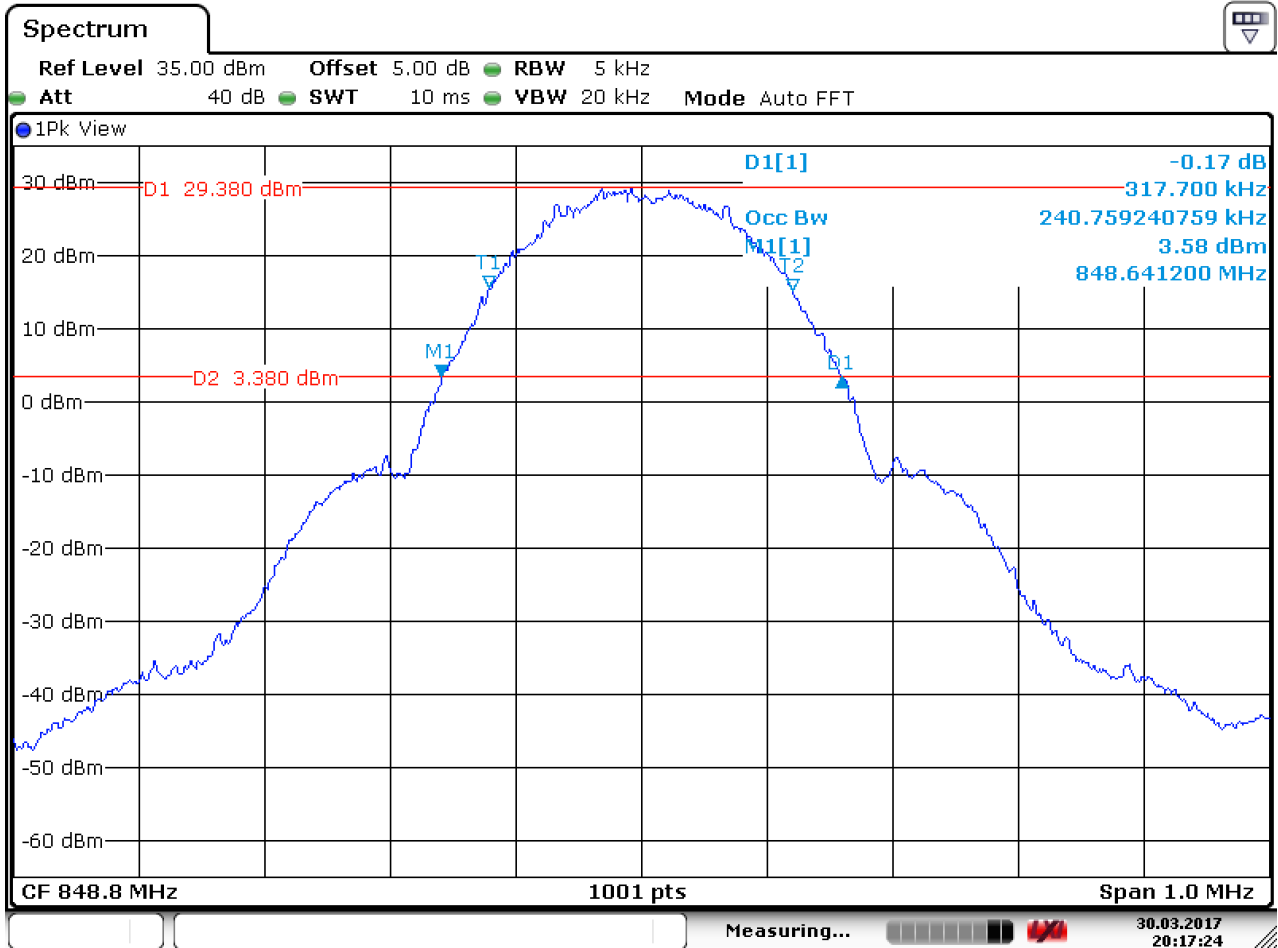


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4.1.1.1.3 Test Channel = HCH



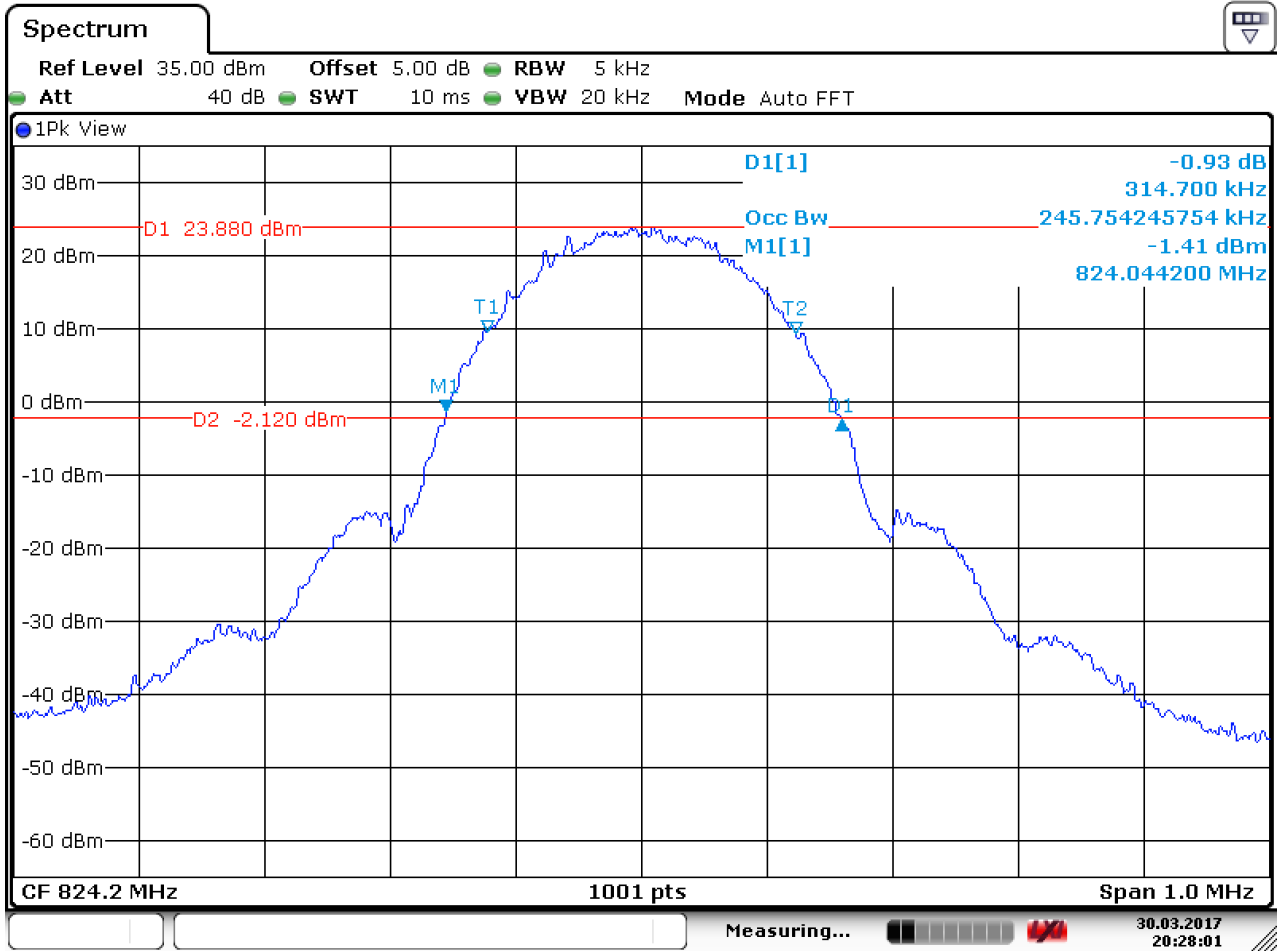
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4.1.1.2 Test Mode = GSM/TM2

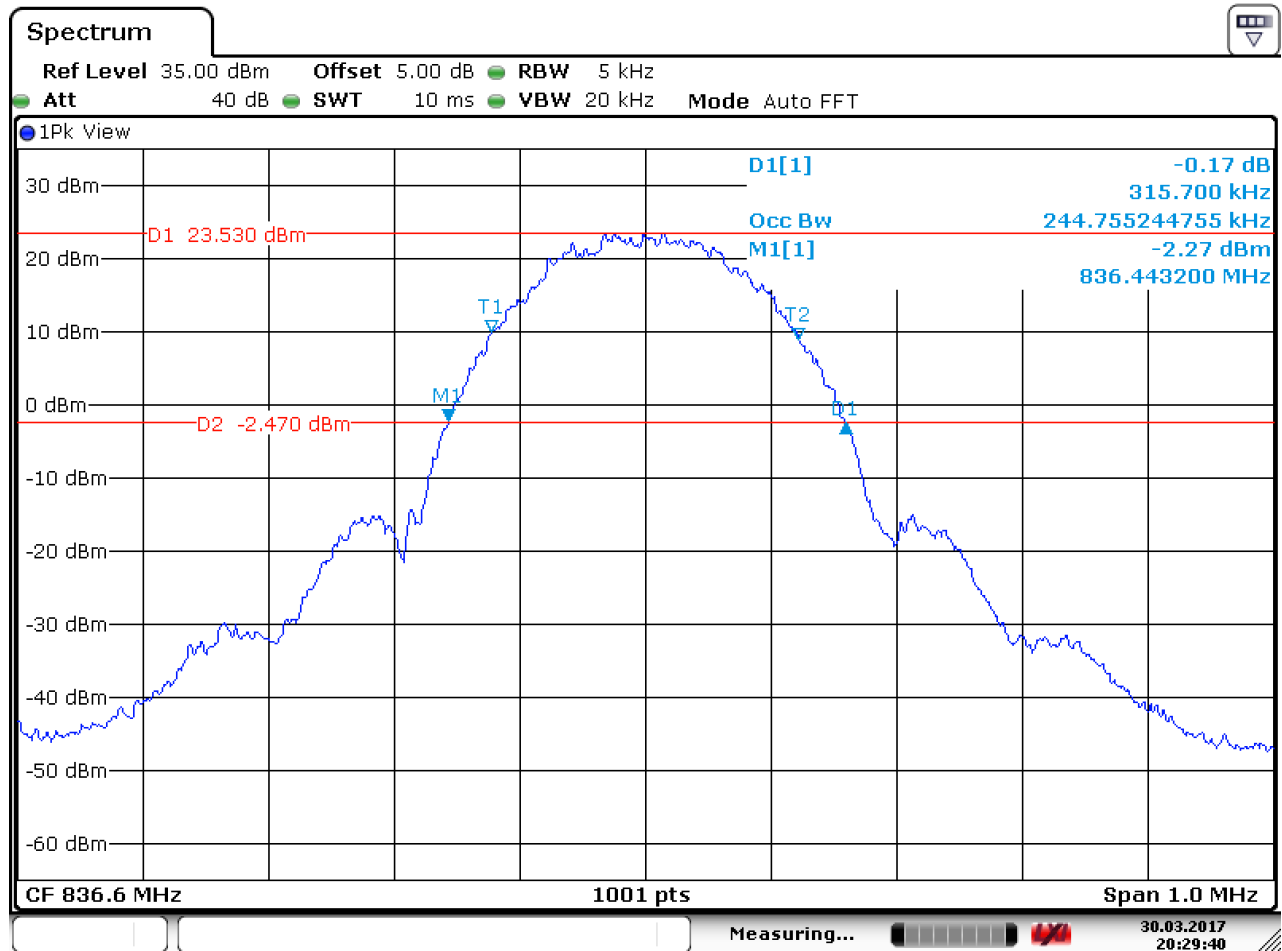
4.1.1.2.1 Test Channel = LCH



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4.1.1.2.2 Test Channel = MCH

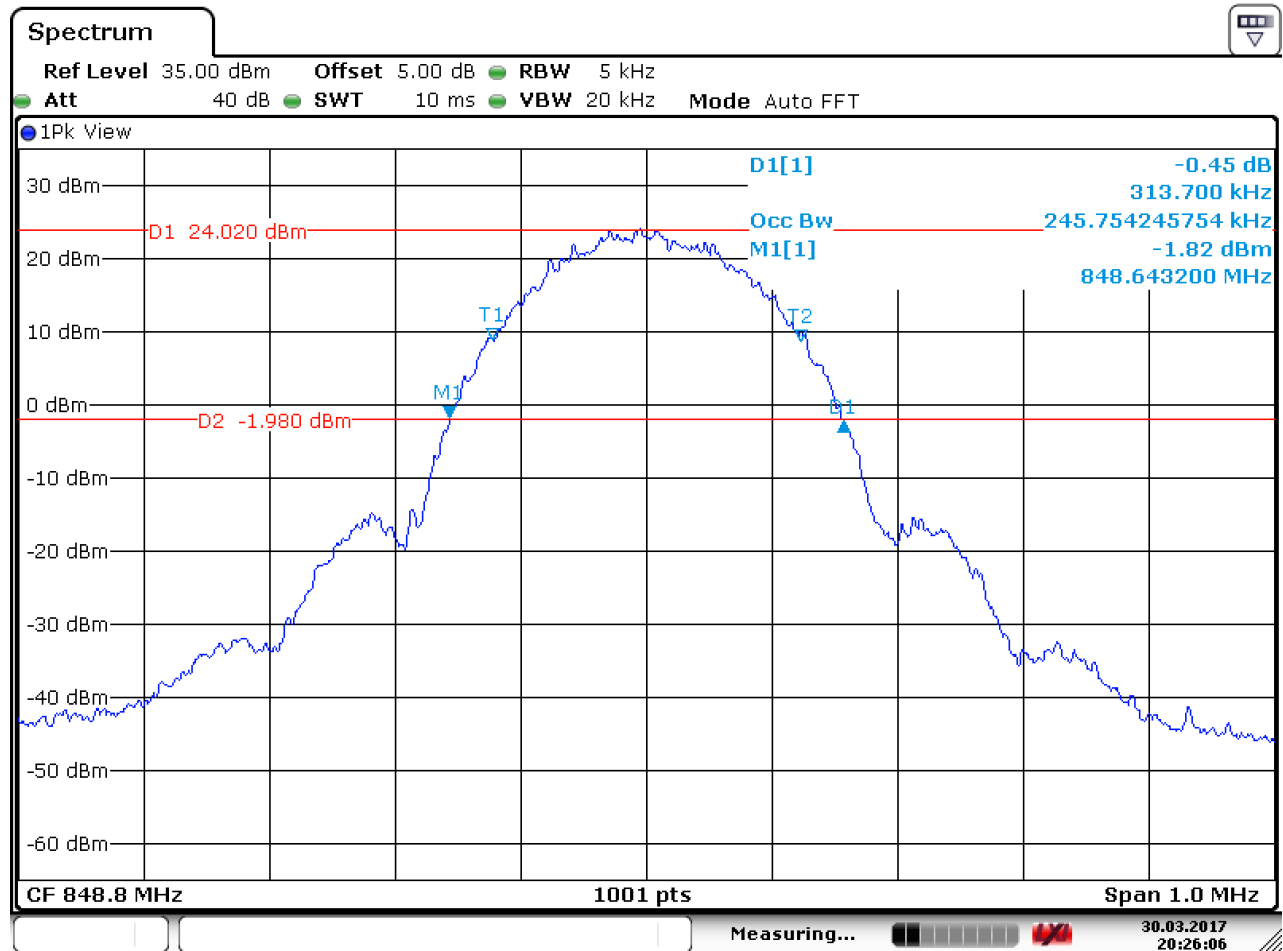


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4.1.1.2.3 Test Channel = HCH



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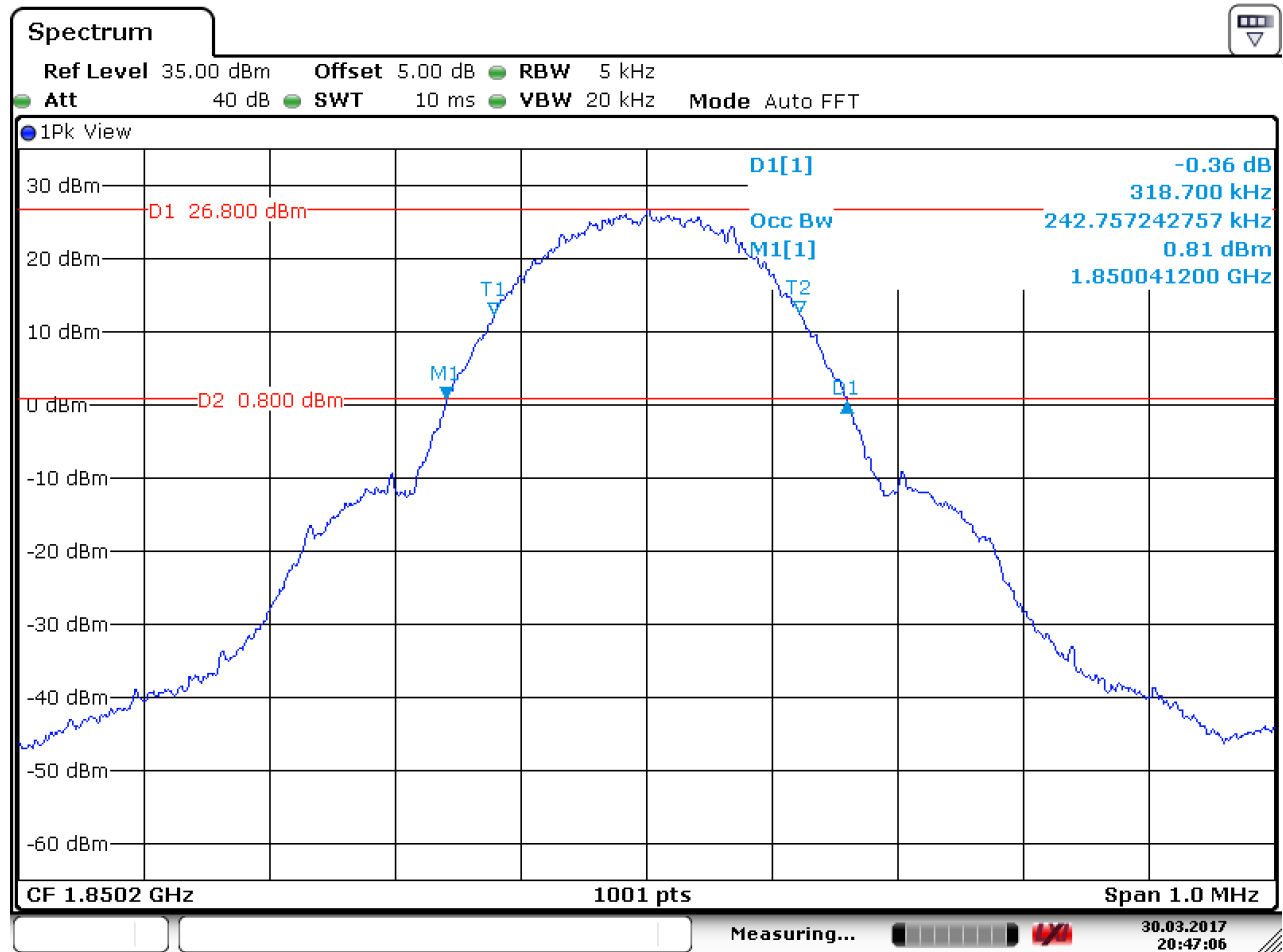
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4.1.2 Test Band = GSM 1900

4.1.2.1 Test Mode = GSM/TM1

4.1.2.1.1 Test Channel = LCH

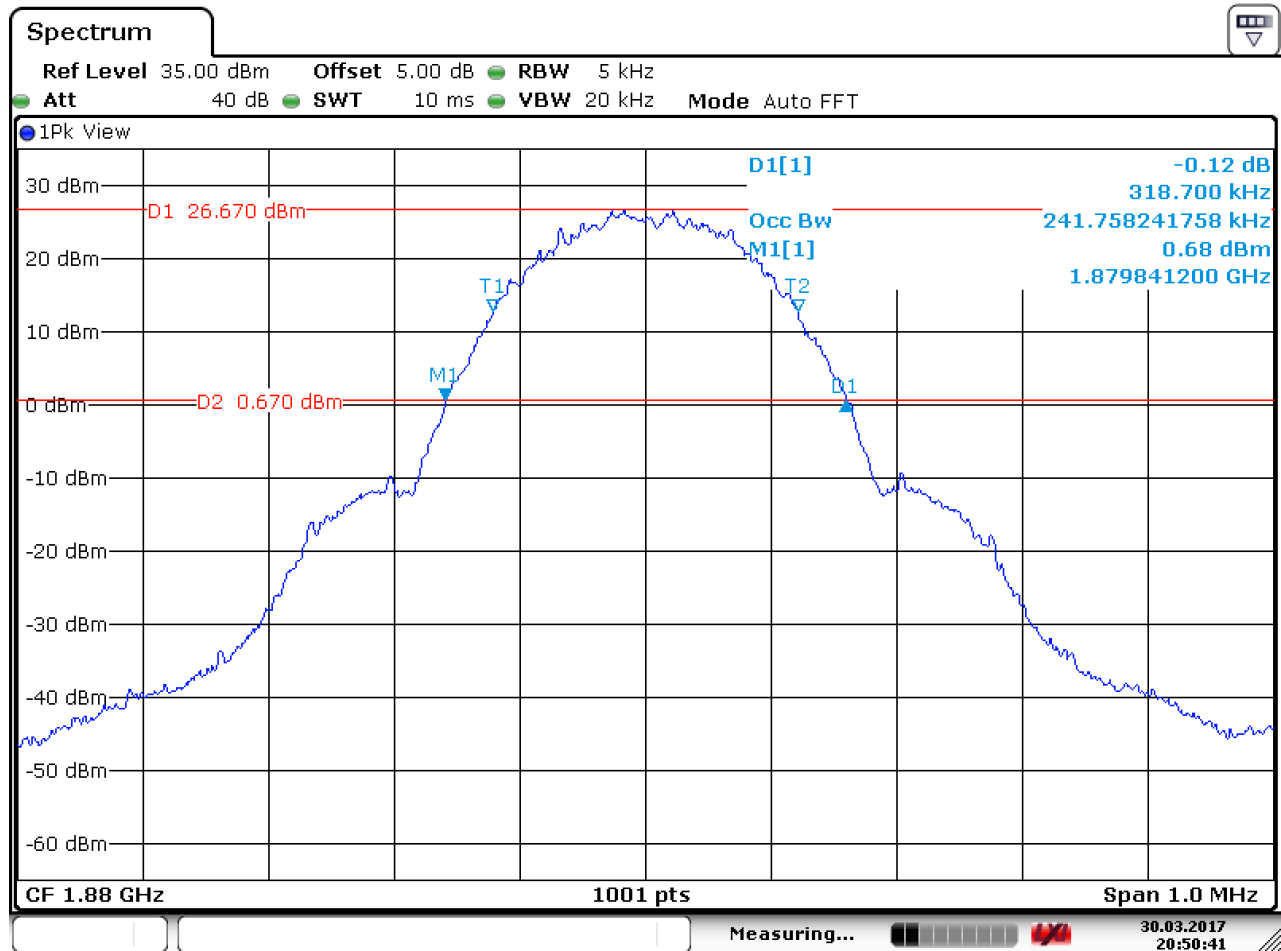


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4.1.2.1.2 Test Channel = MCH

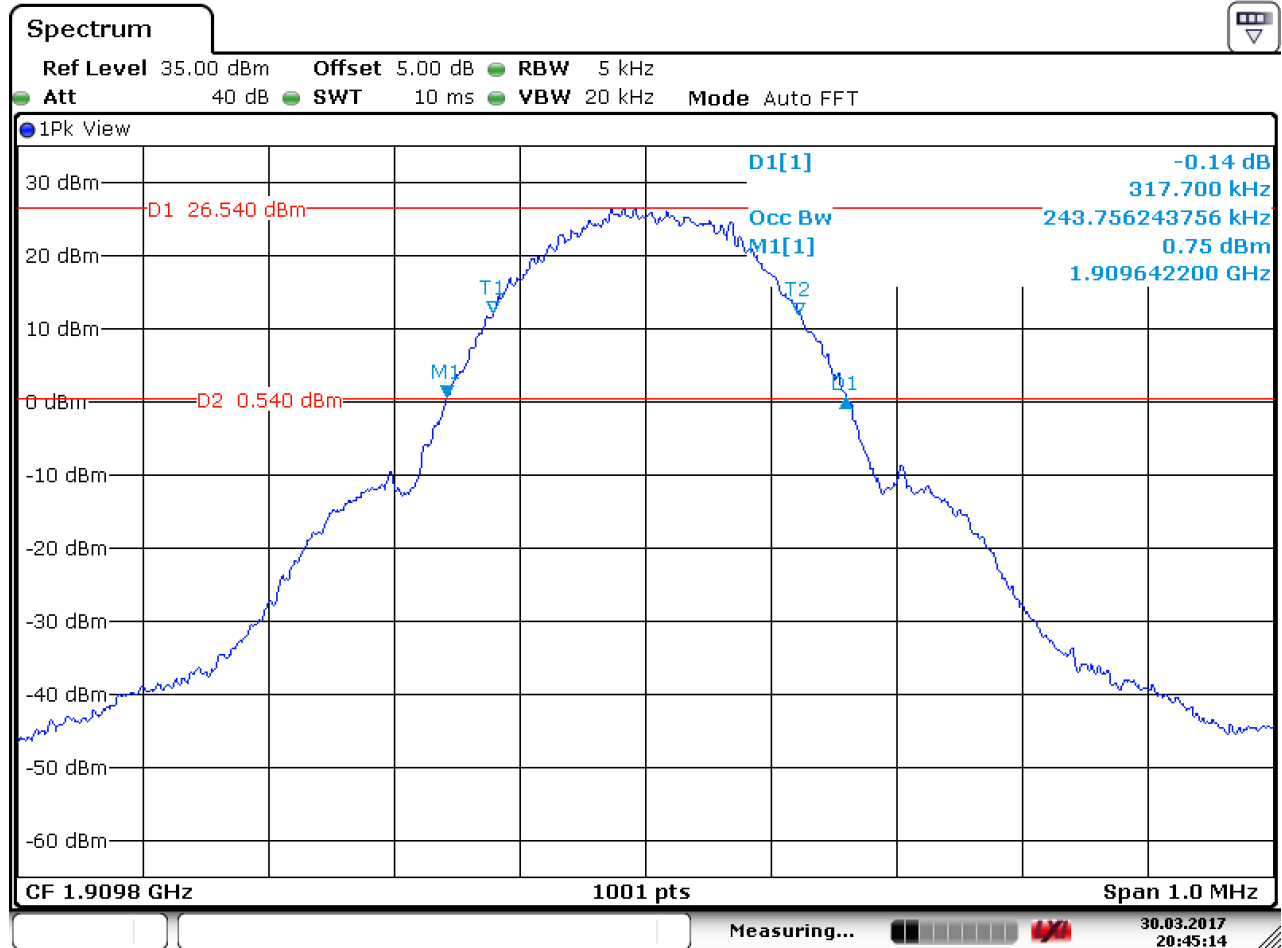


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4.1.2.1.3 Test Channel = HCH



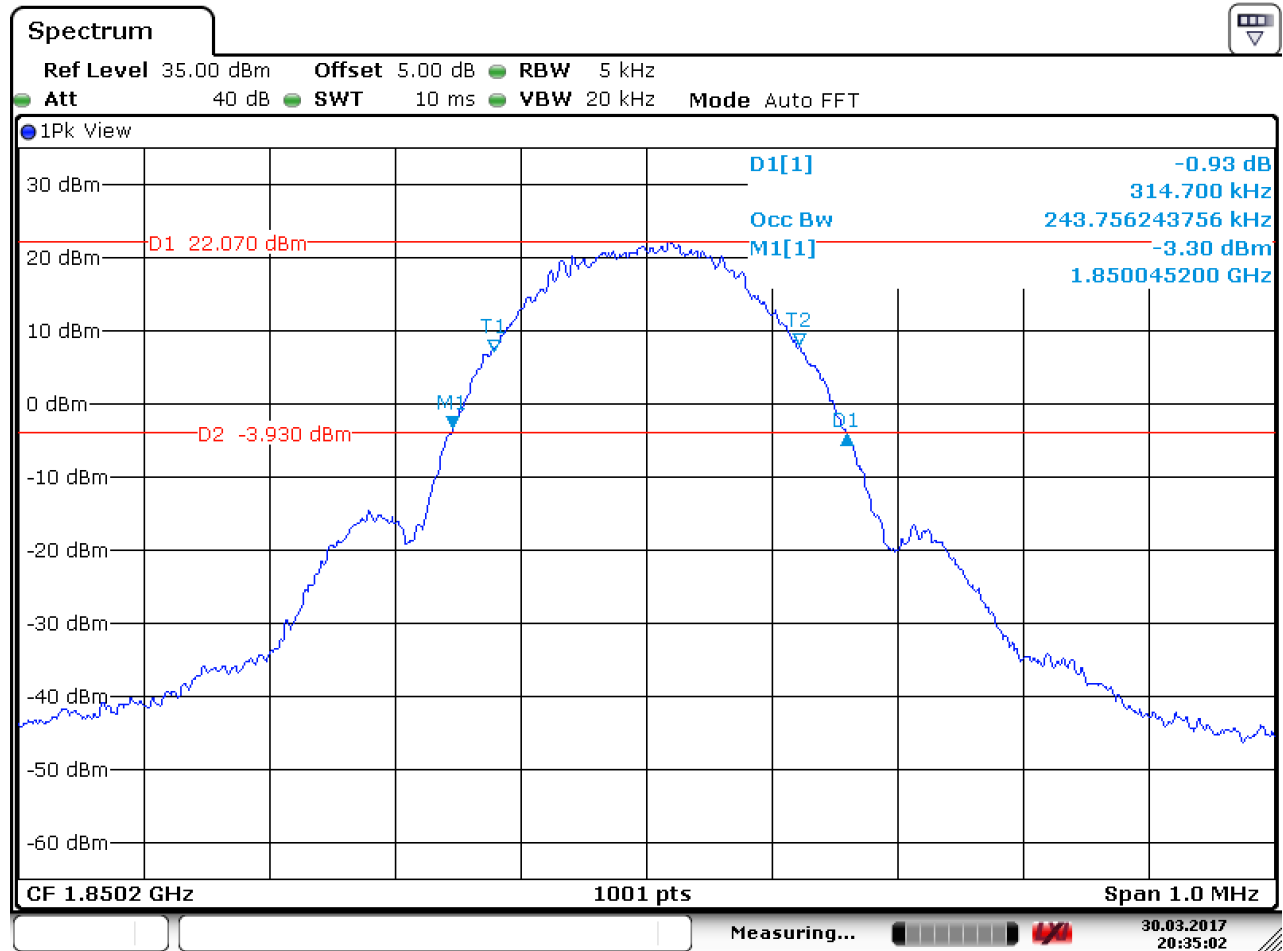
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4.1.2.2 Test Mode = GSM/TM2

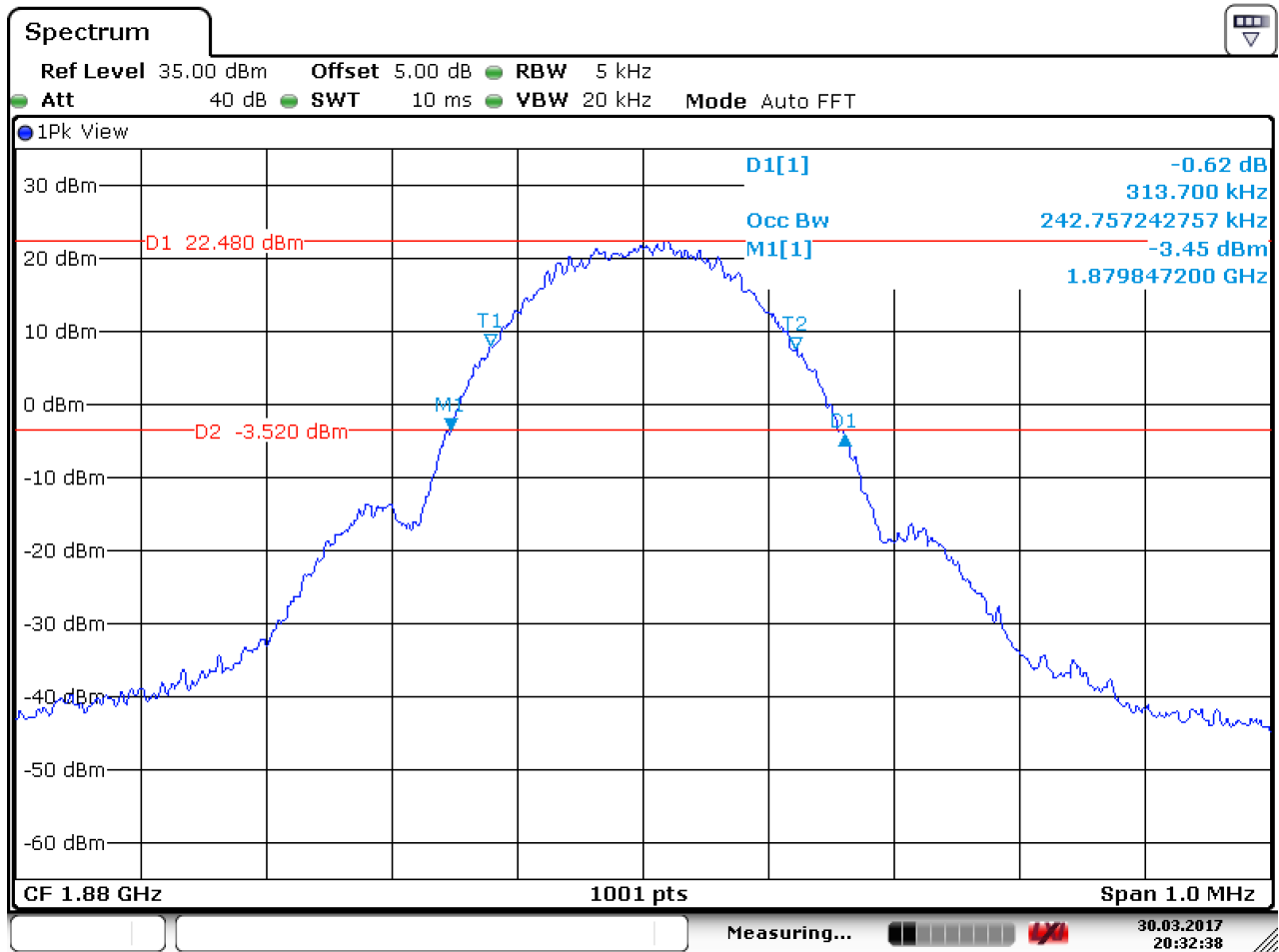
4.1.2.2.1 Test Channel = LCH



Date: 30.MAR.2017 20:35:03



4.1.2.2.2 Test Channel = MCH

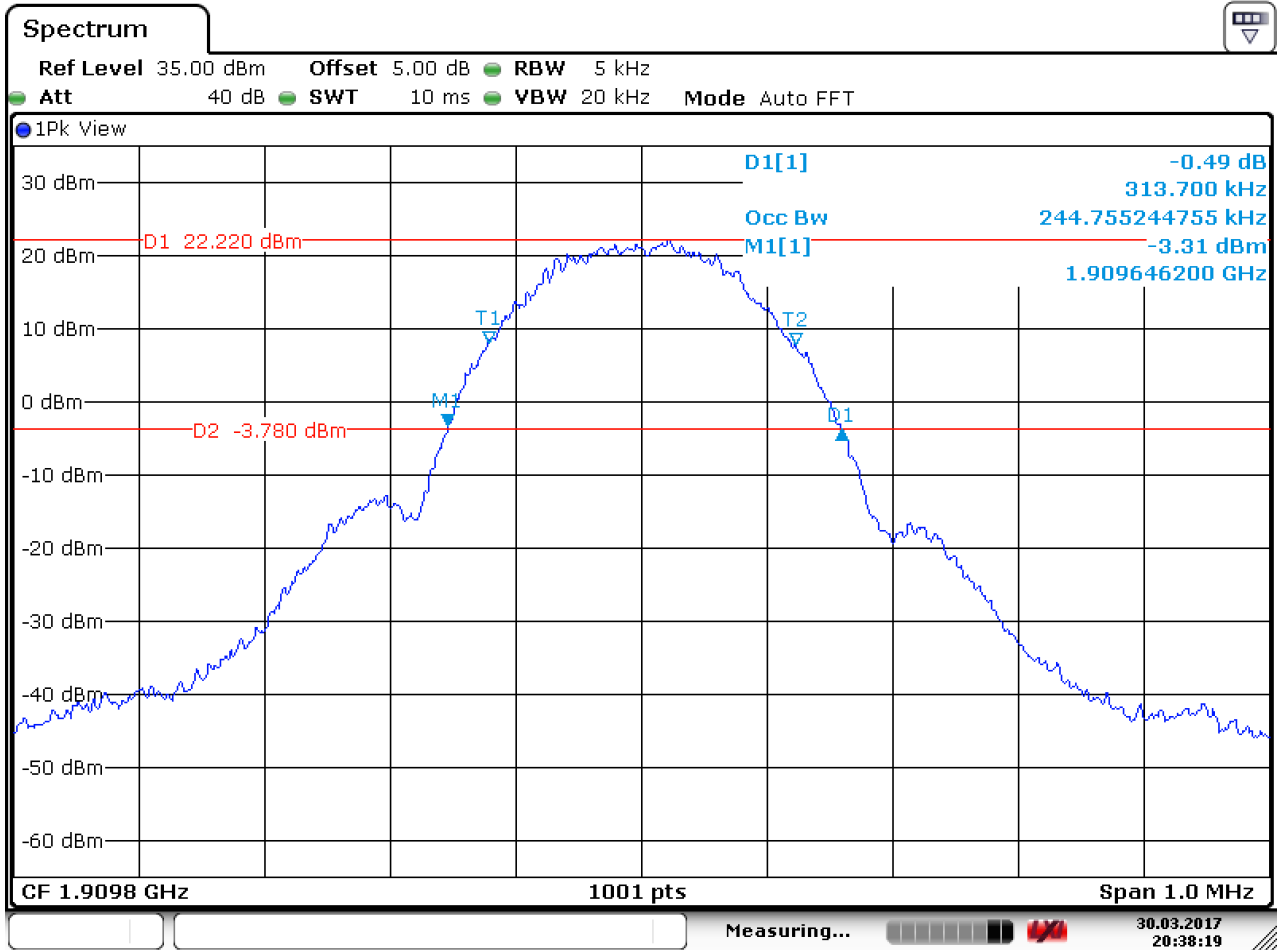


Date: 30.MAR.2017 20:32:38

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4.1.2.2.3 Test Channel = HCH



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5 Band Edges Compliance

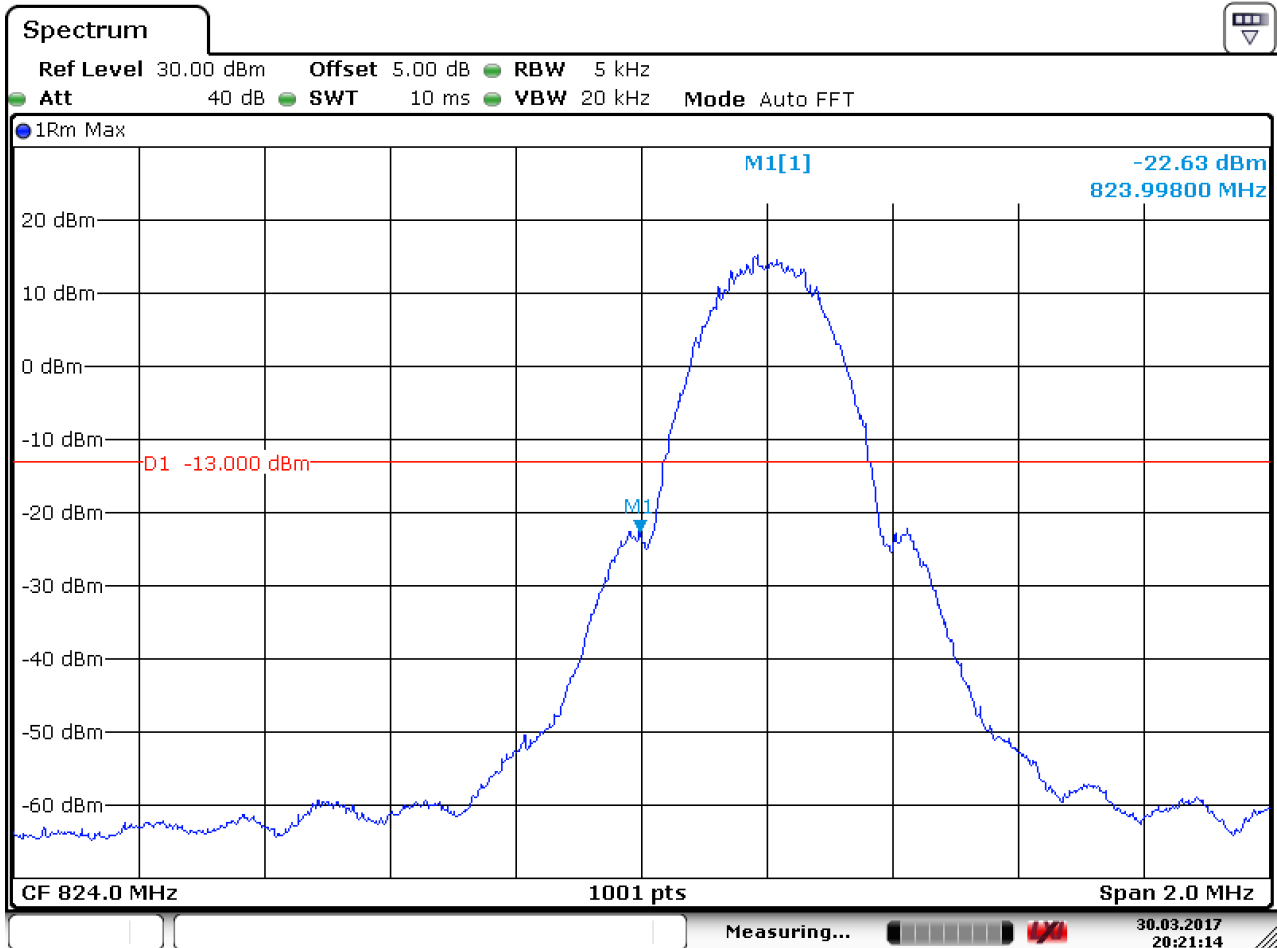
Part I - Test Plots

5.1 For GSM

5.1.1 Test Band = GSM 850

5.1.1.1 Test Mode = GSM/TM1

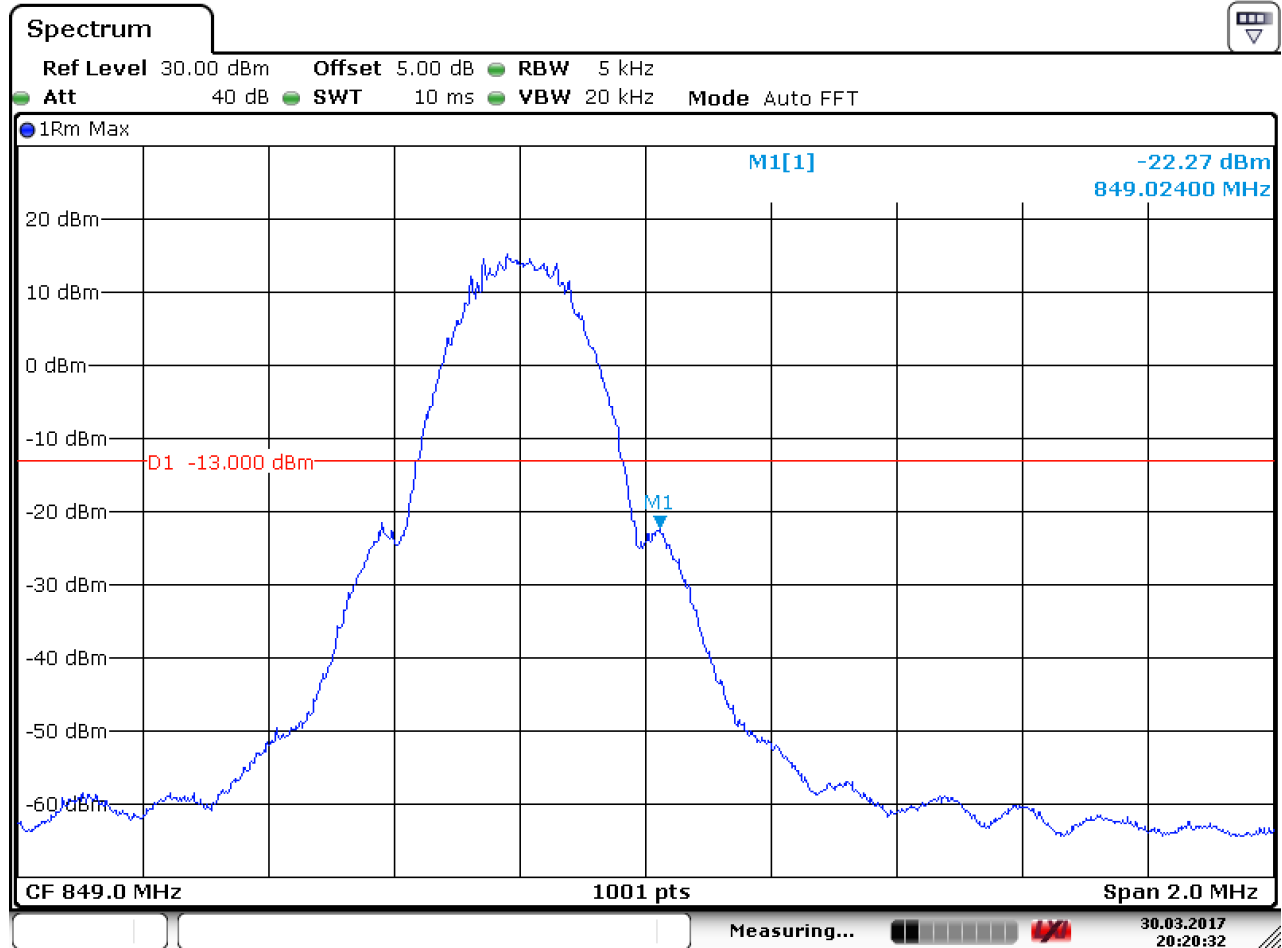
5.1.1.1.1 Test Channel = LCH



Date: 30.MAR.2017 20:21:15



5.1.1.1.2 Test Channel = HCH



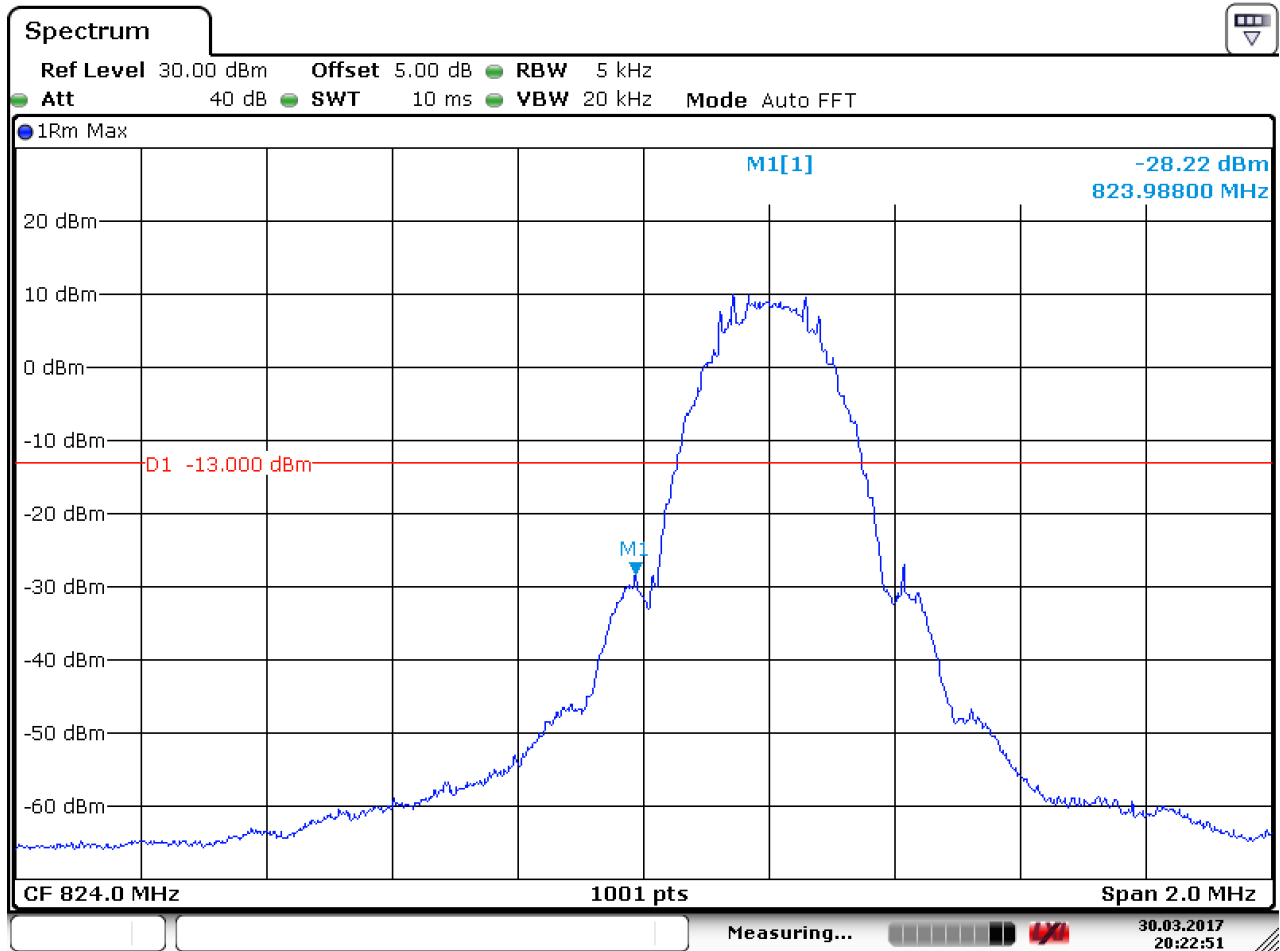
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5.1.1.2 Test Mode = GSM/TM2

5.1.1.2.1 Test Channel = LCH

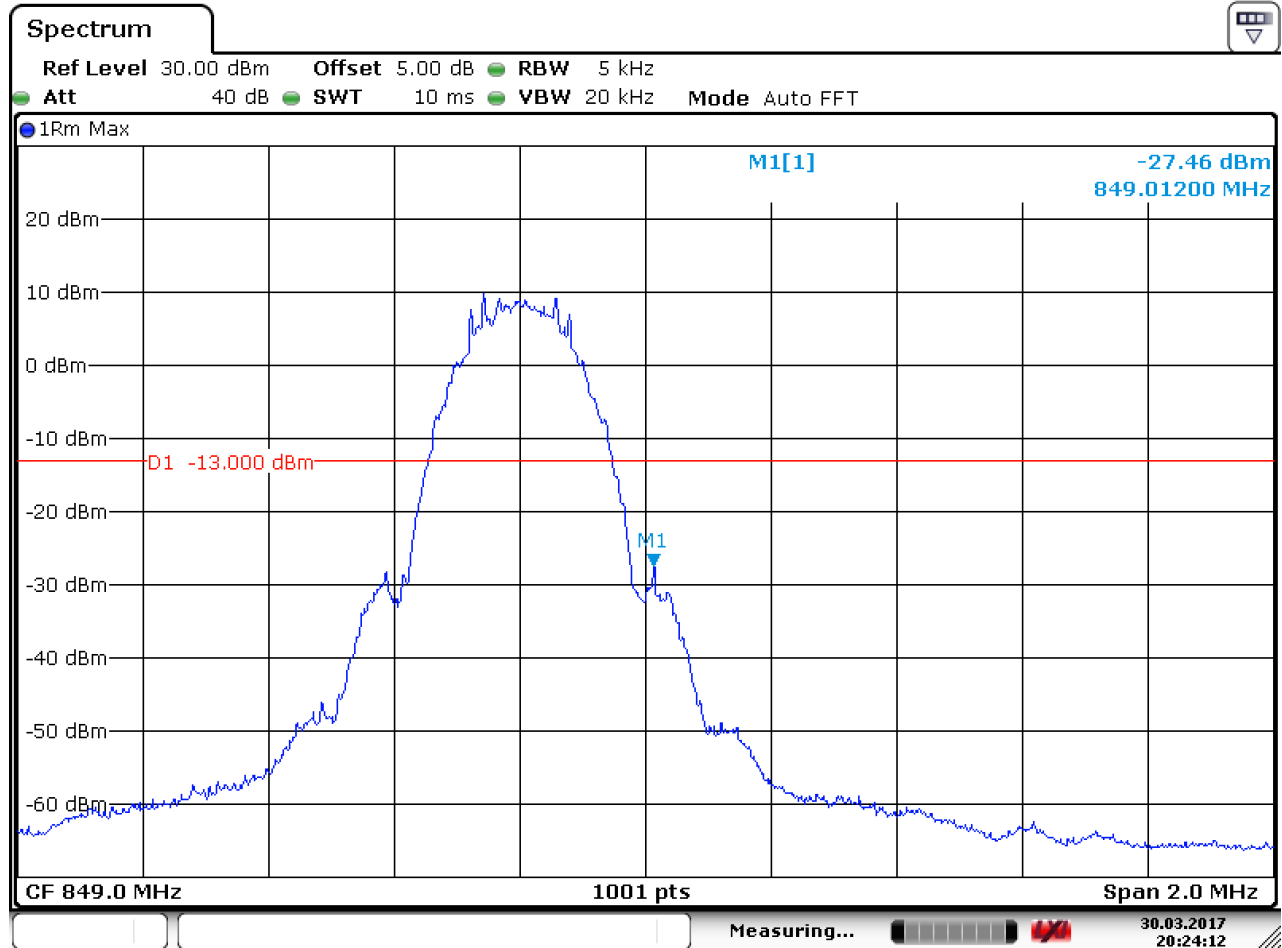


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5.1.1.2.2 Test Channel = HCH



Date: 30.MAR.2017 20:24:13

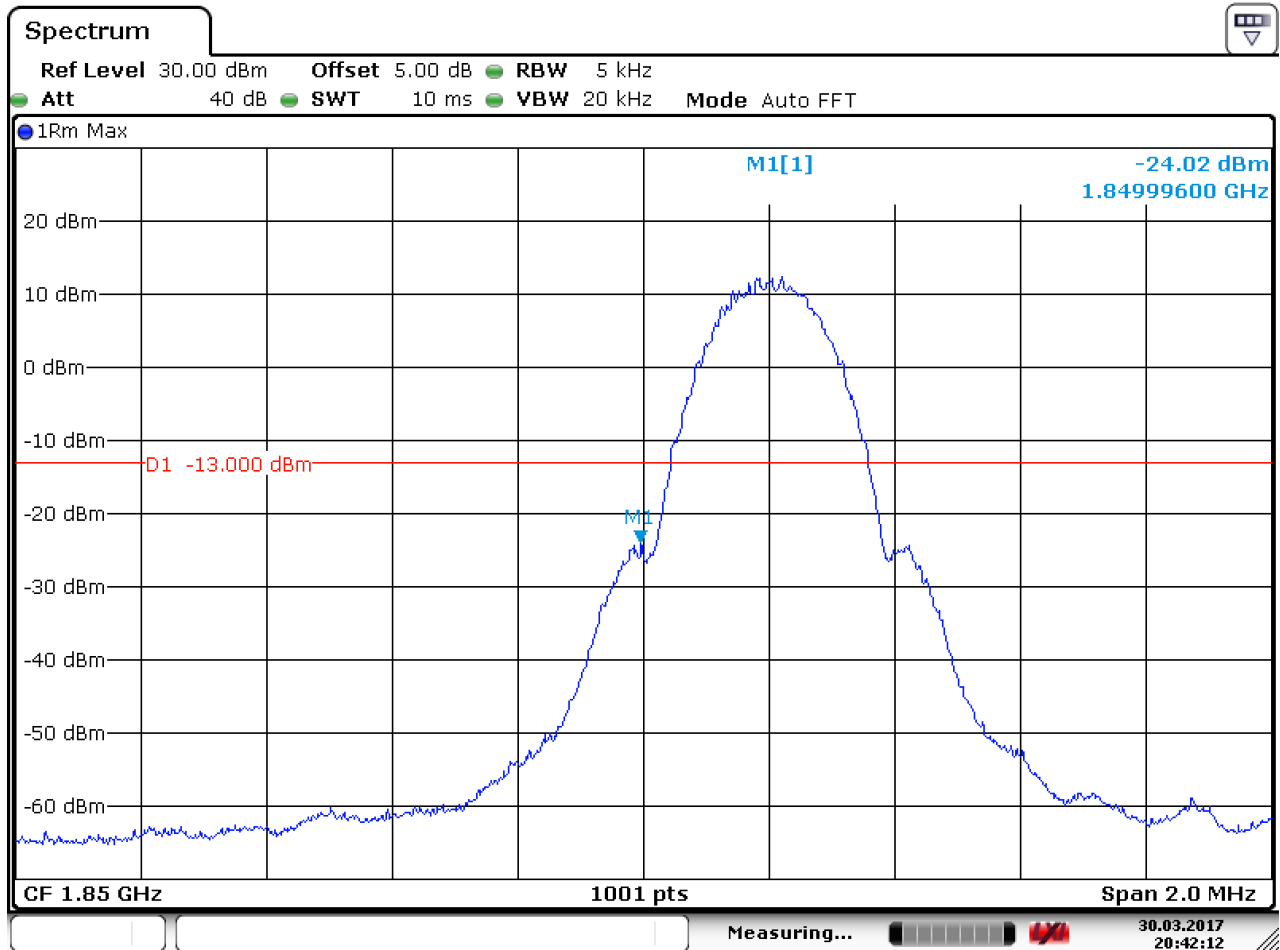
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5.1.2 Test Band = GSM 1900

5.1.2.1 Test Mode = GSM/TM1

5.1.2.1.1 Test Channel = LCH

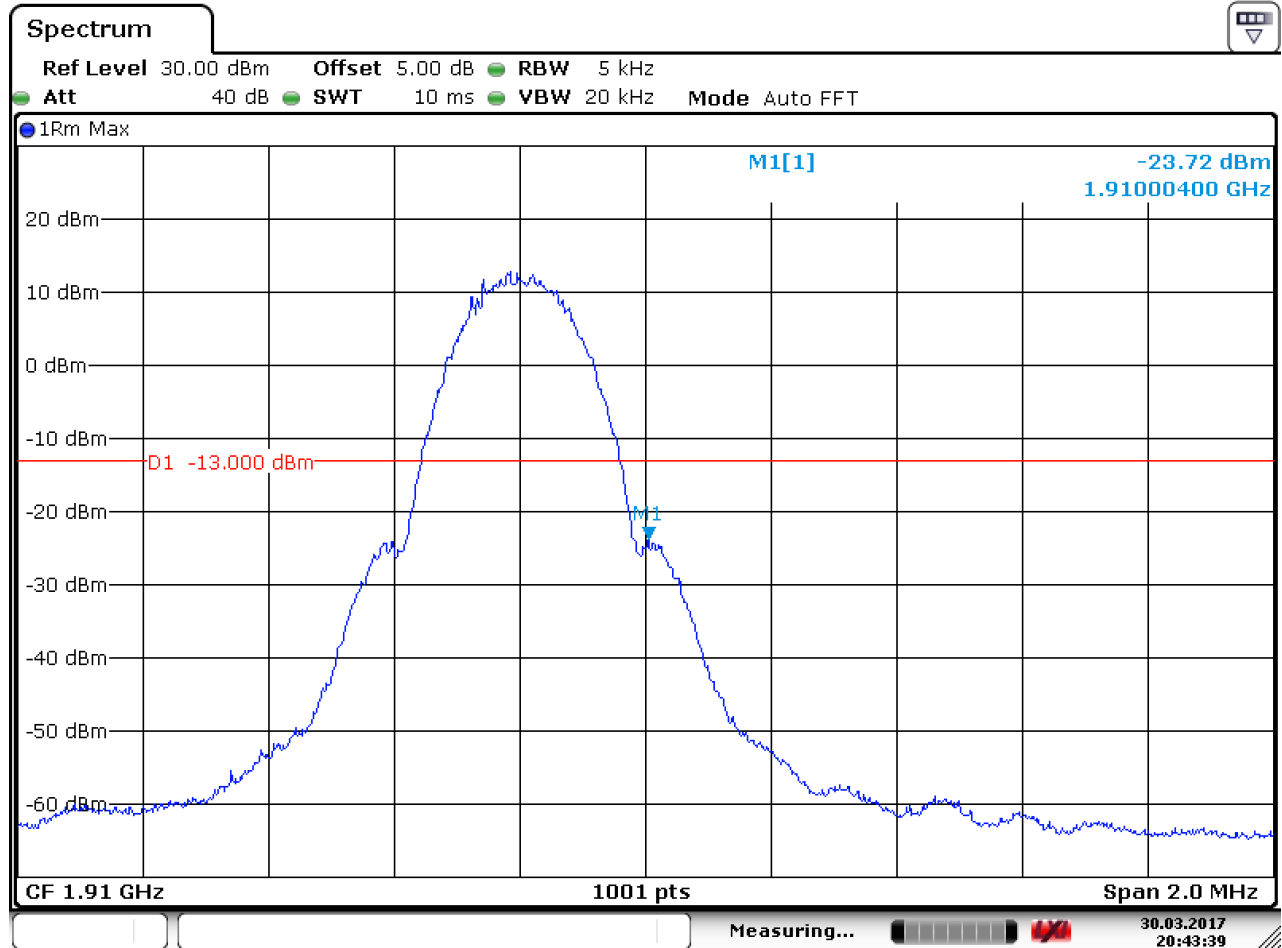


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5.1.2.1.2 Test Channel = HCH

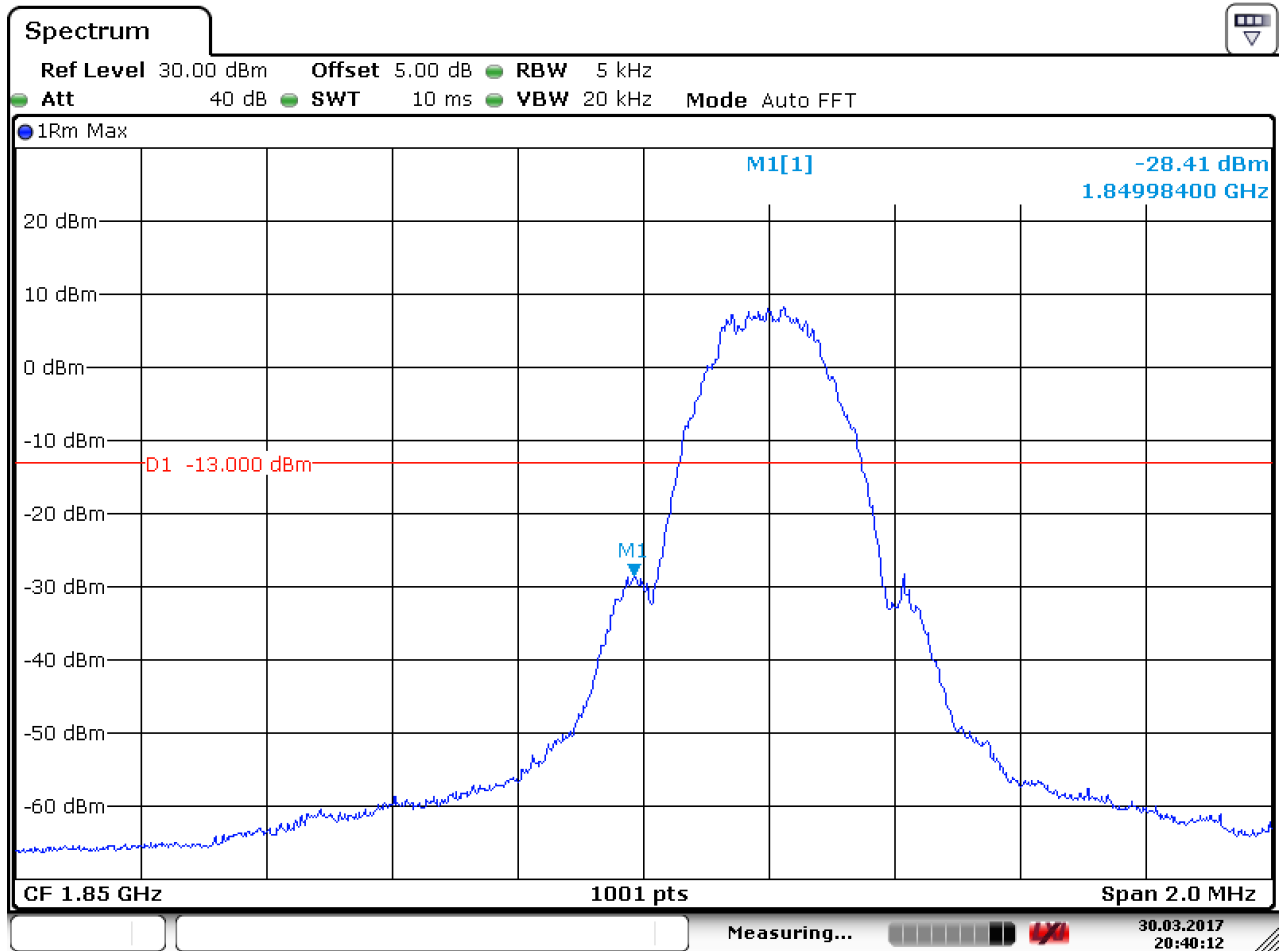


Date: 30.MAR.2017 20:43:39



5.1.2.2 Test Mode = GSM/TM2

5.1.2.2.1 Test Channel = LCH

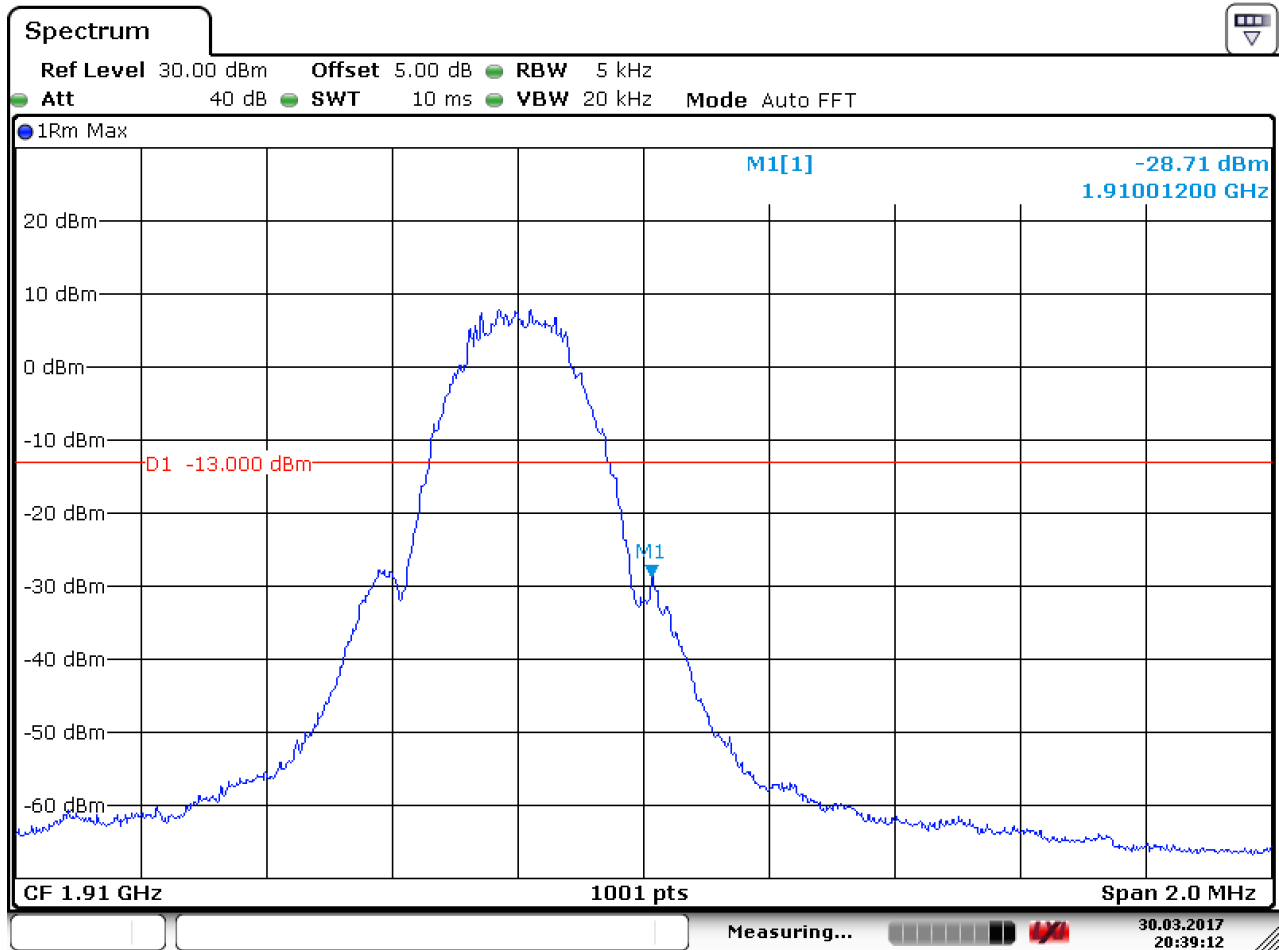


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5.1.2.2.2 Test Channel = HCH



Date: 30.MAR.2017 20:39:12

6 Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

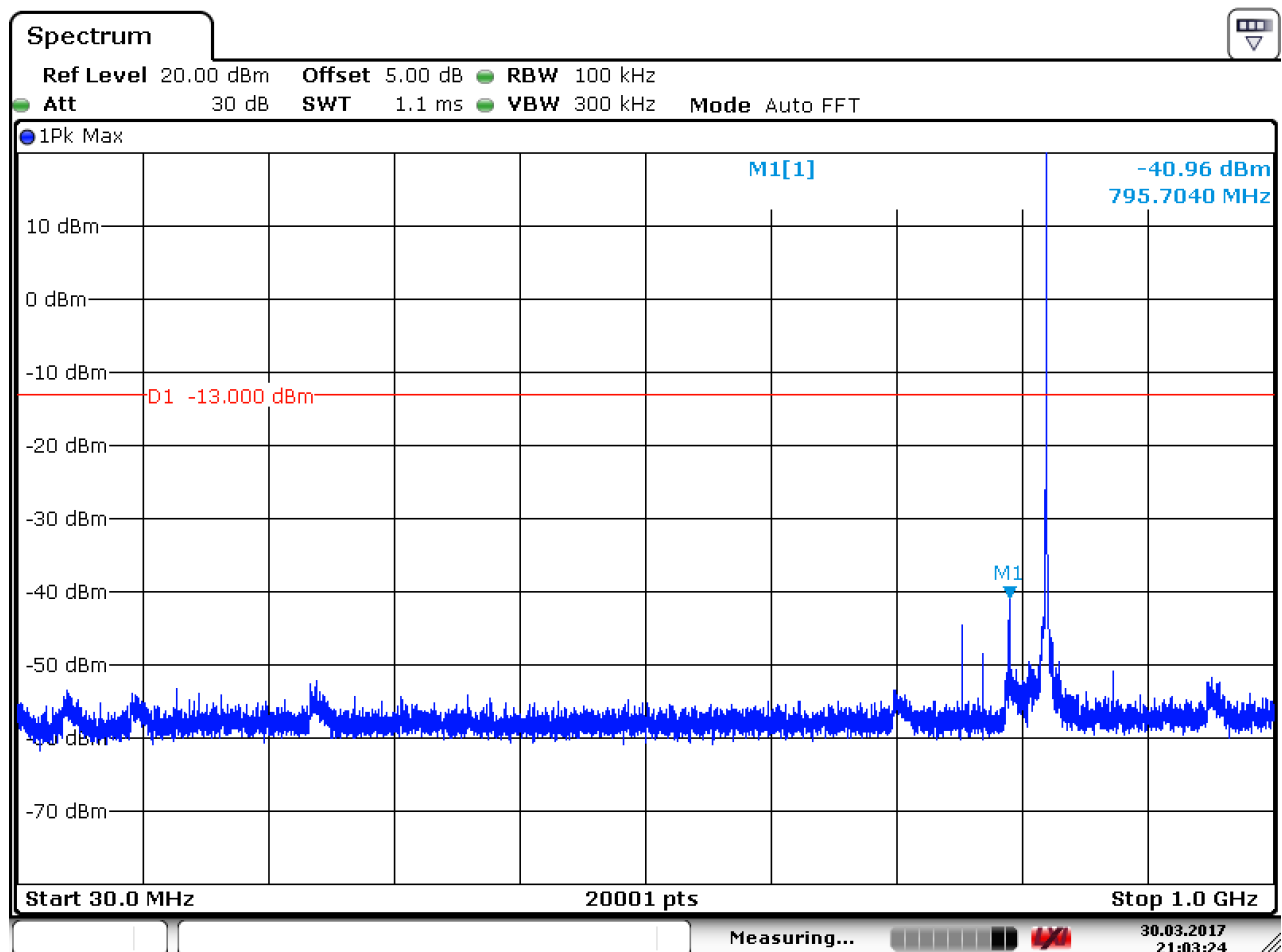
Part I - Test Plots

6.1 For GSM

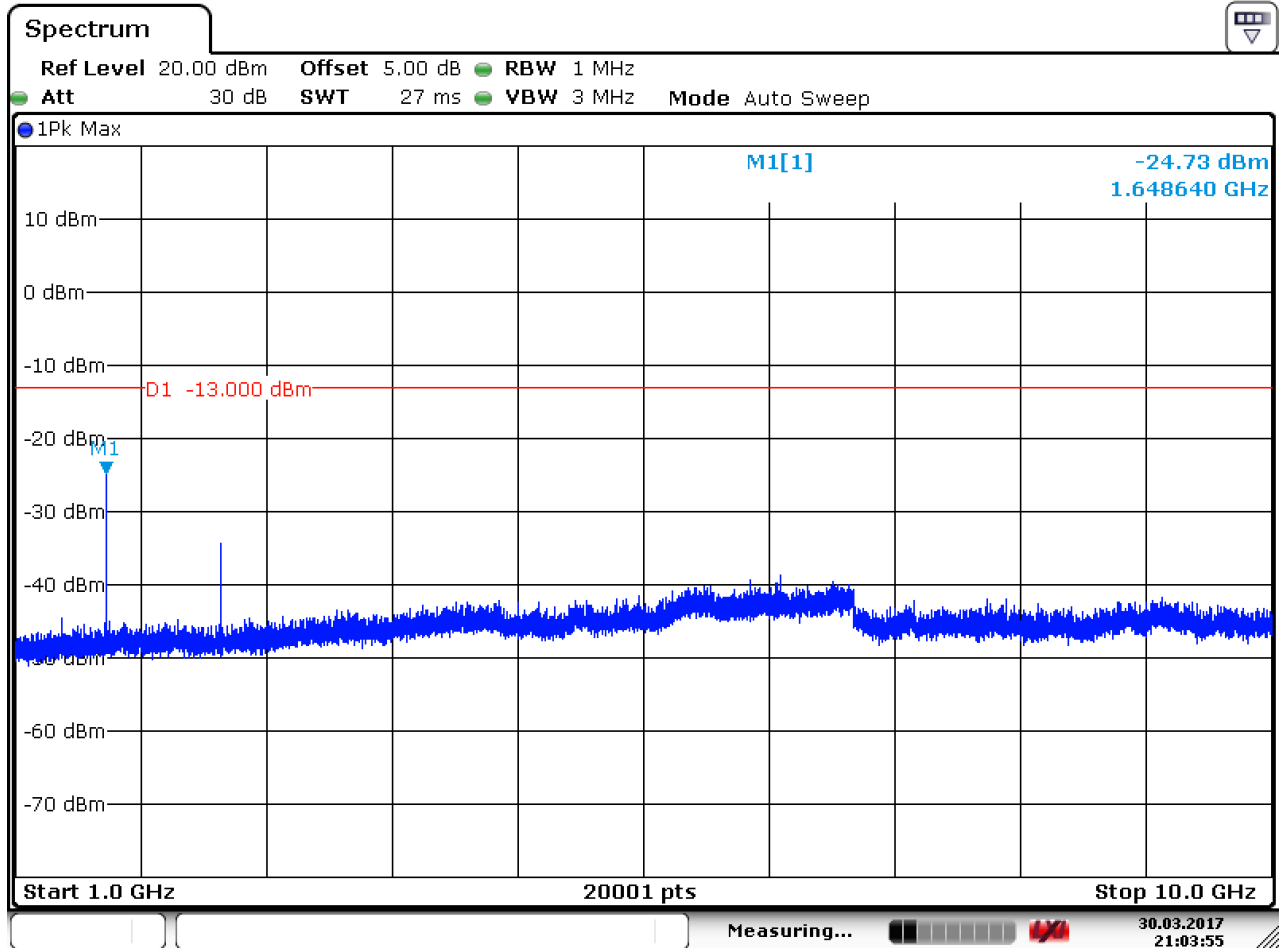
6.1.1 Test Band = GSM 850

6.1.1.1 Test Mode = GSM/TM1

6.1.1.1.1 Test Channel = LCH



Date: 30.MAR.2017 21:03:24

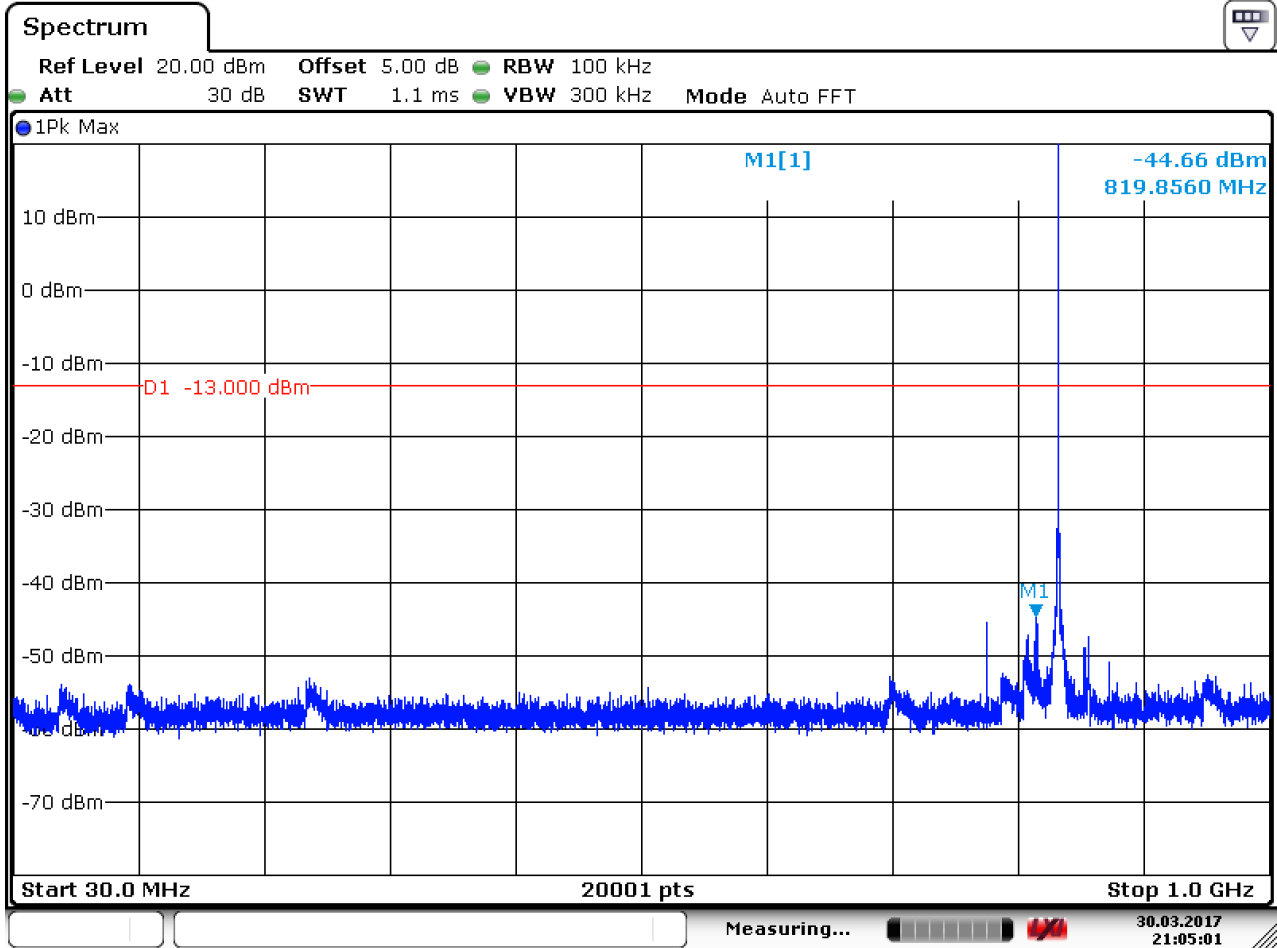


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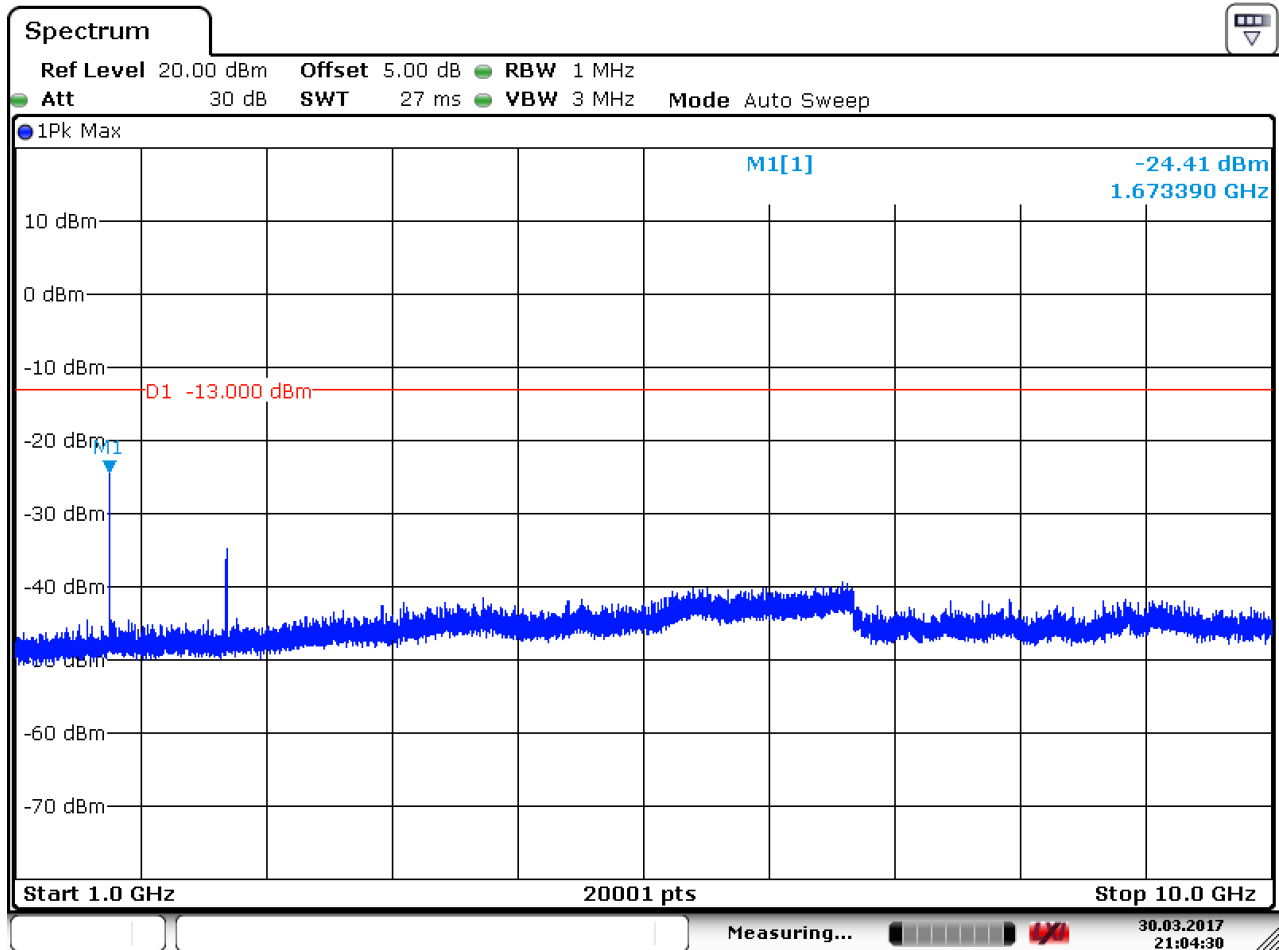


6.1.1.1.2 Test Channel = MCH



Date: 30.MAR.2017 21:05:02

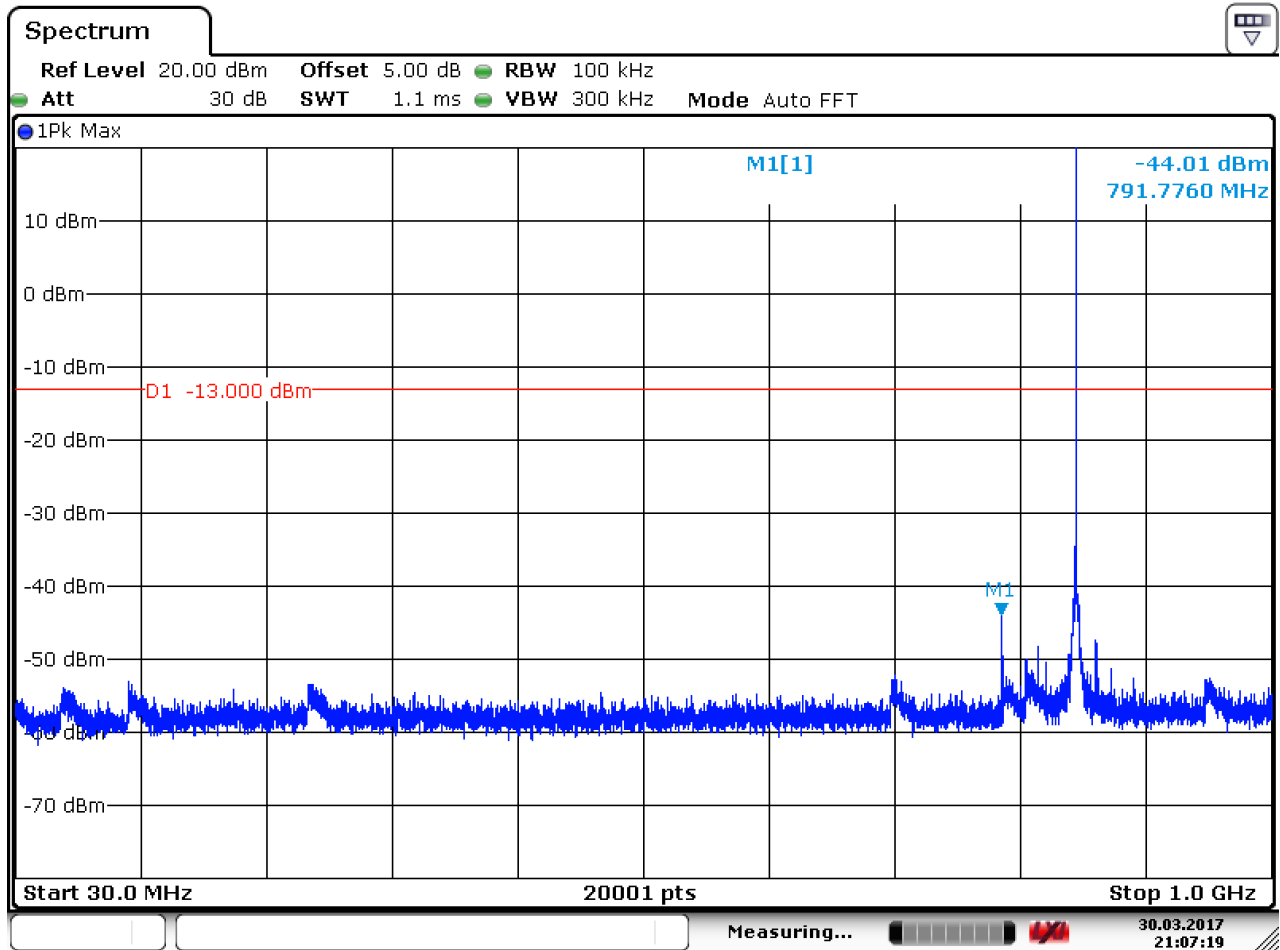
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Date: 30.MAR.2017 21:04:30

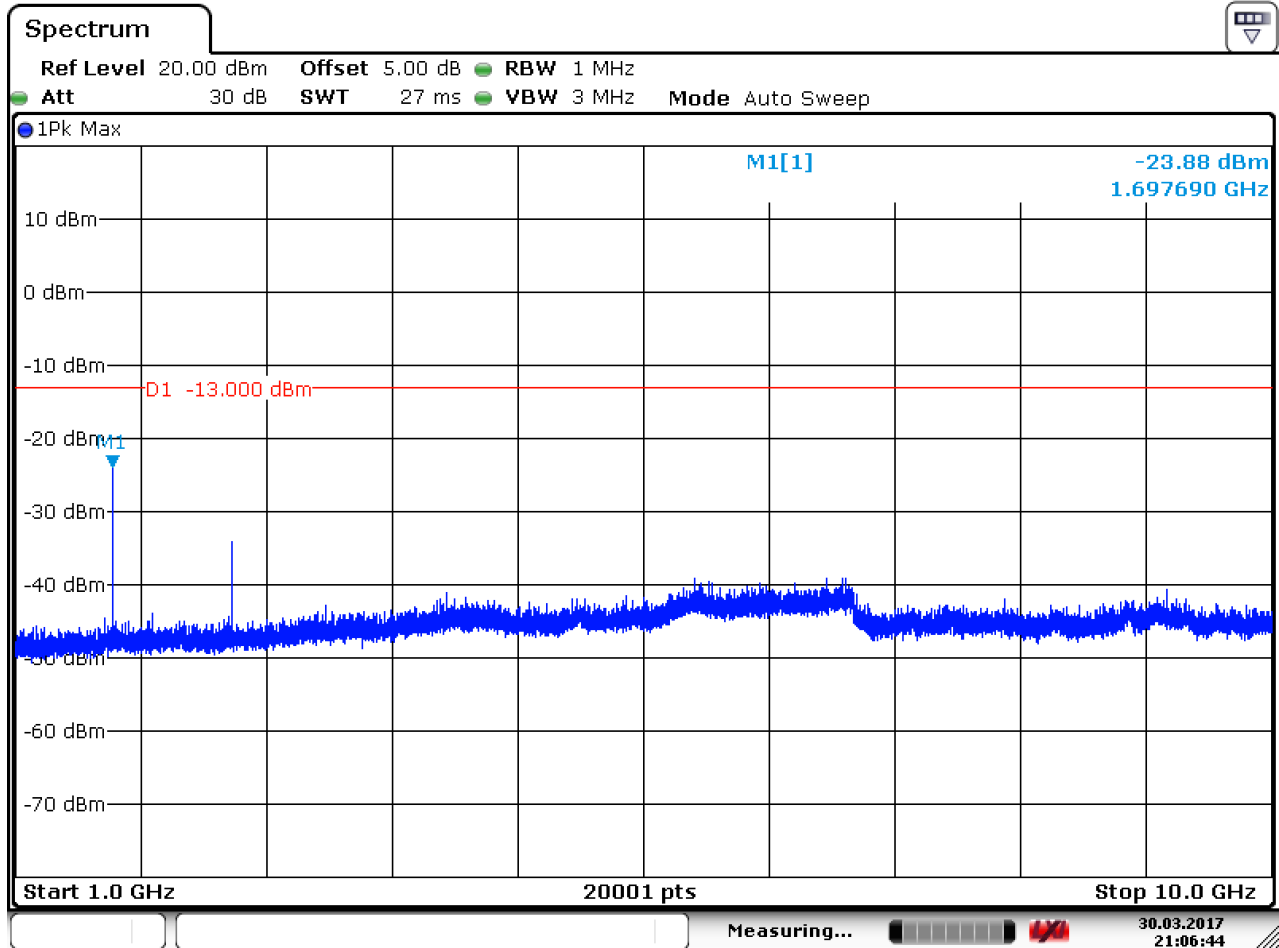


6.1.1.1.3 Test Channel = HCH



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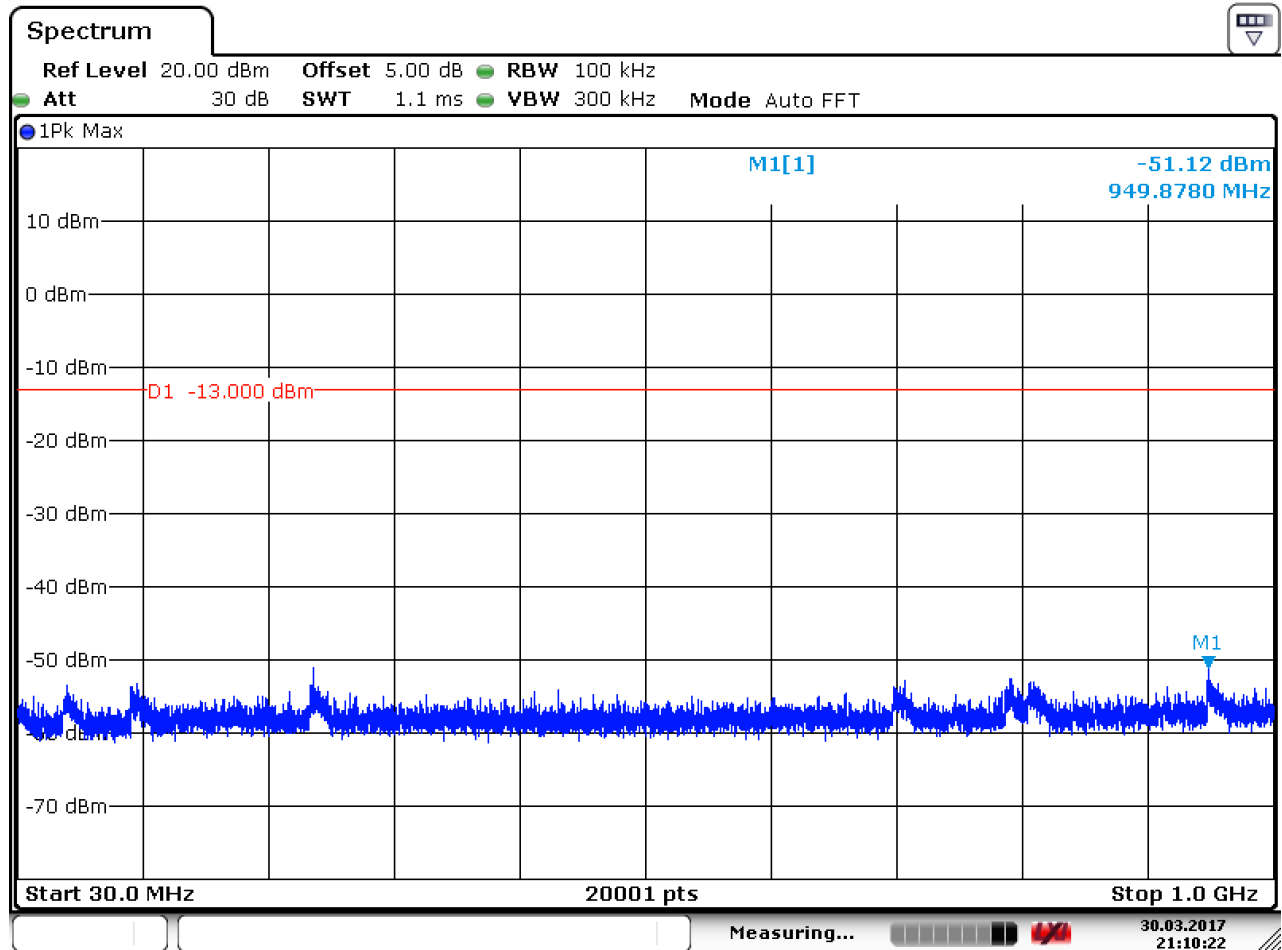
Date: 30.MAR.2017 21:06:44



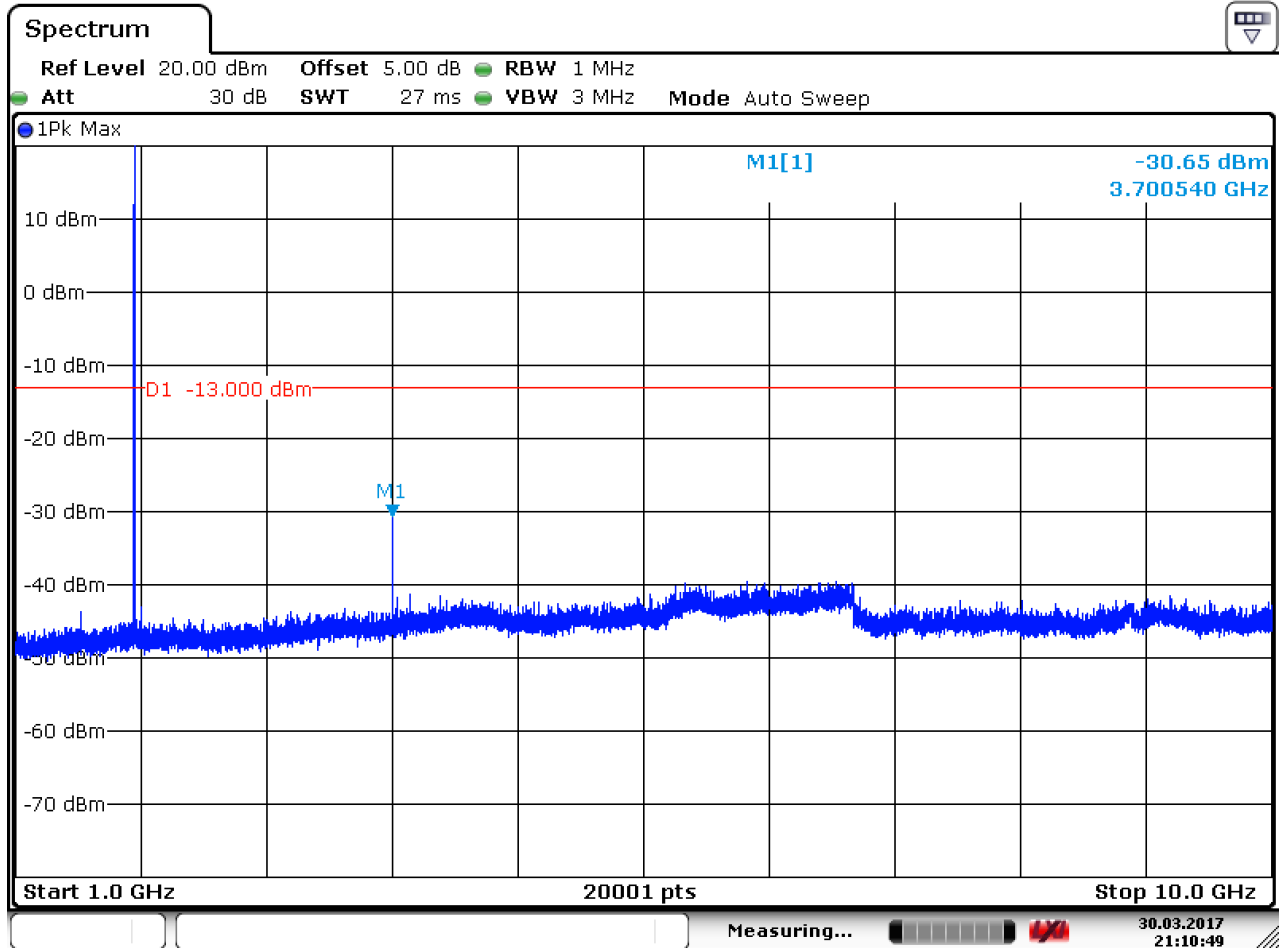
6.1.2 Test Band = GSM 1900

6.1.2.1 Test Mode = GSM/TM1

6.1.2.1.1 Test Channel = LCH

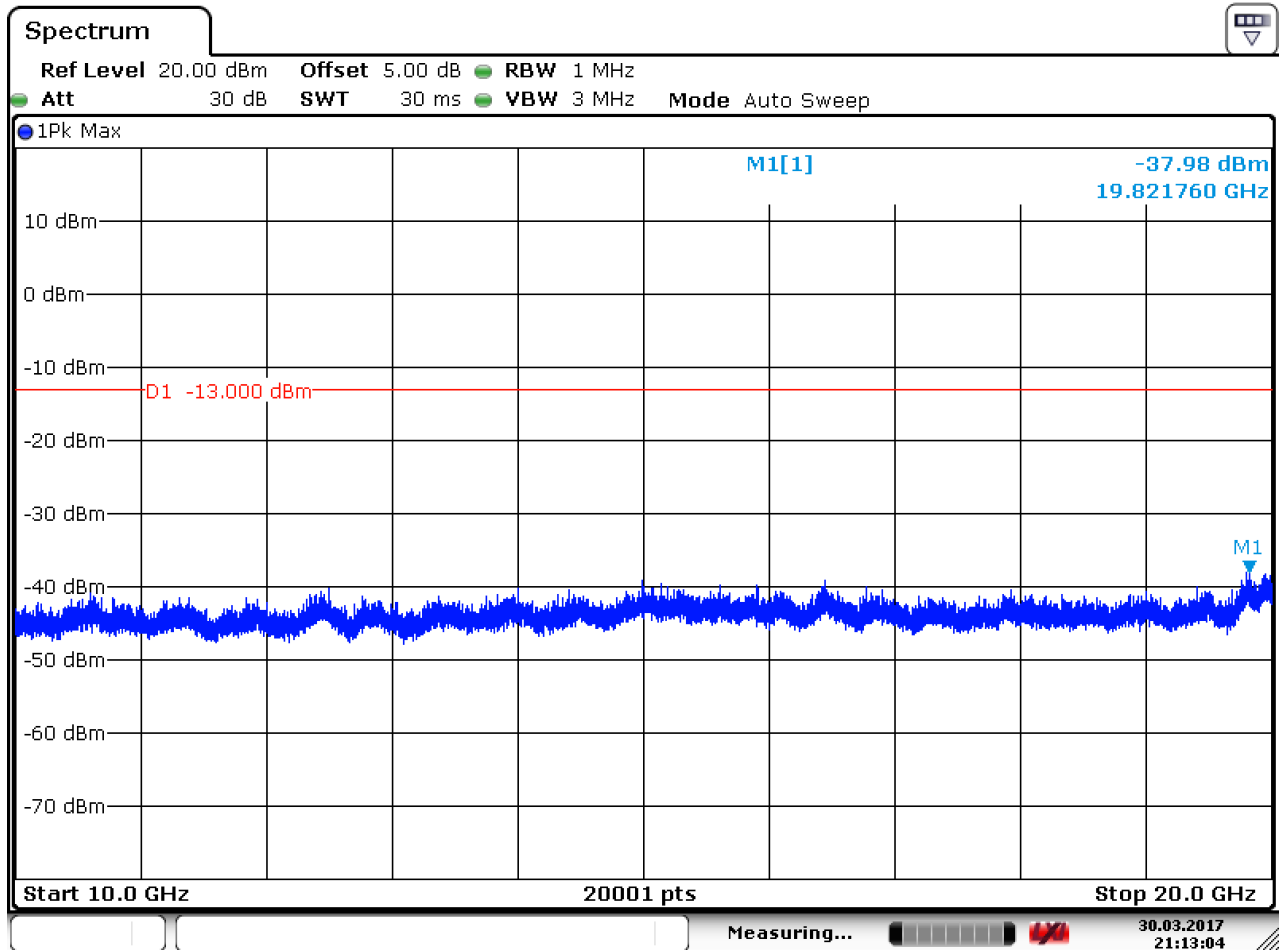


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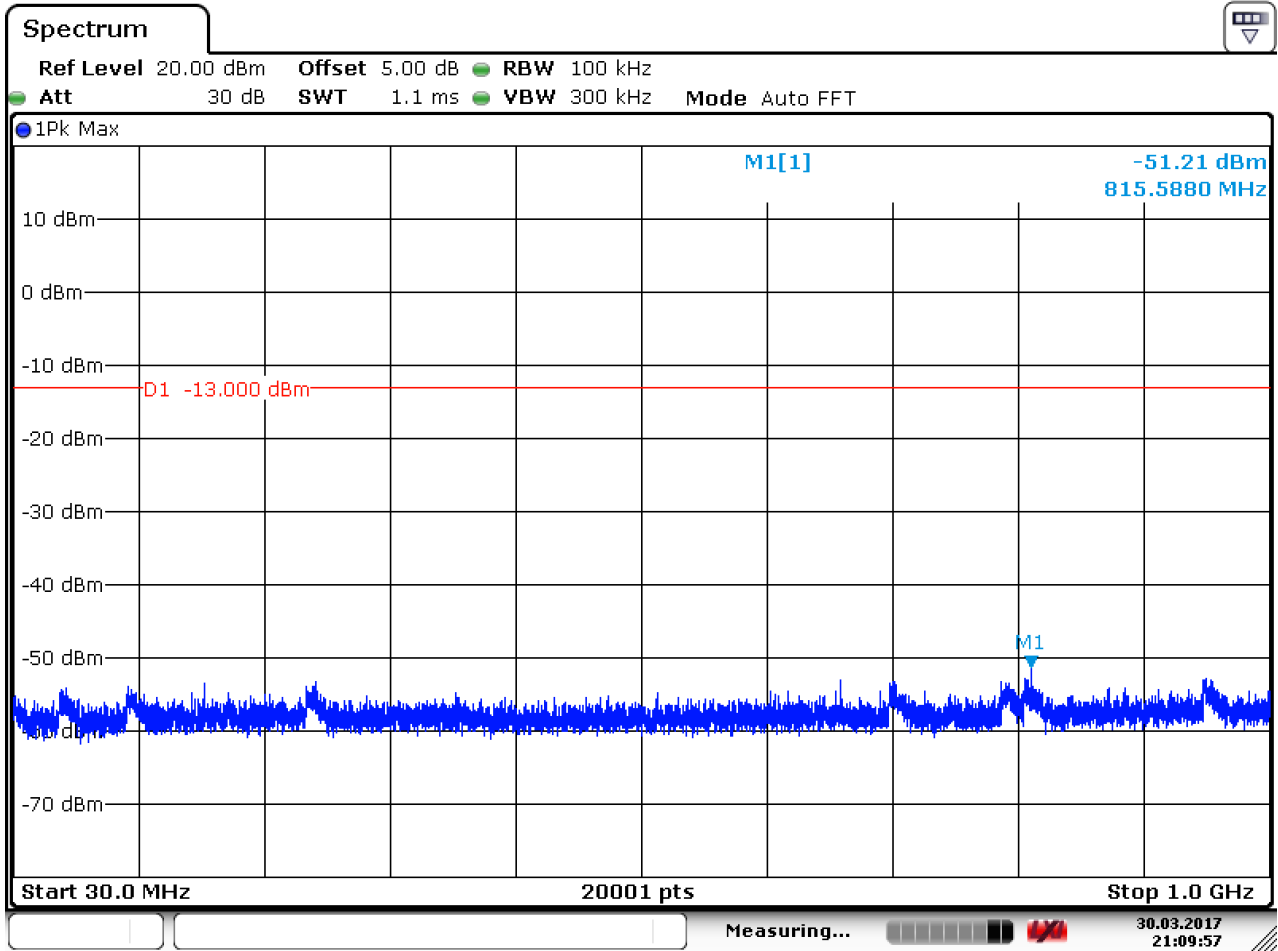


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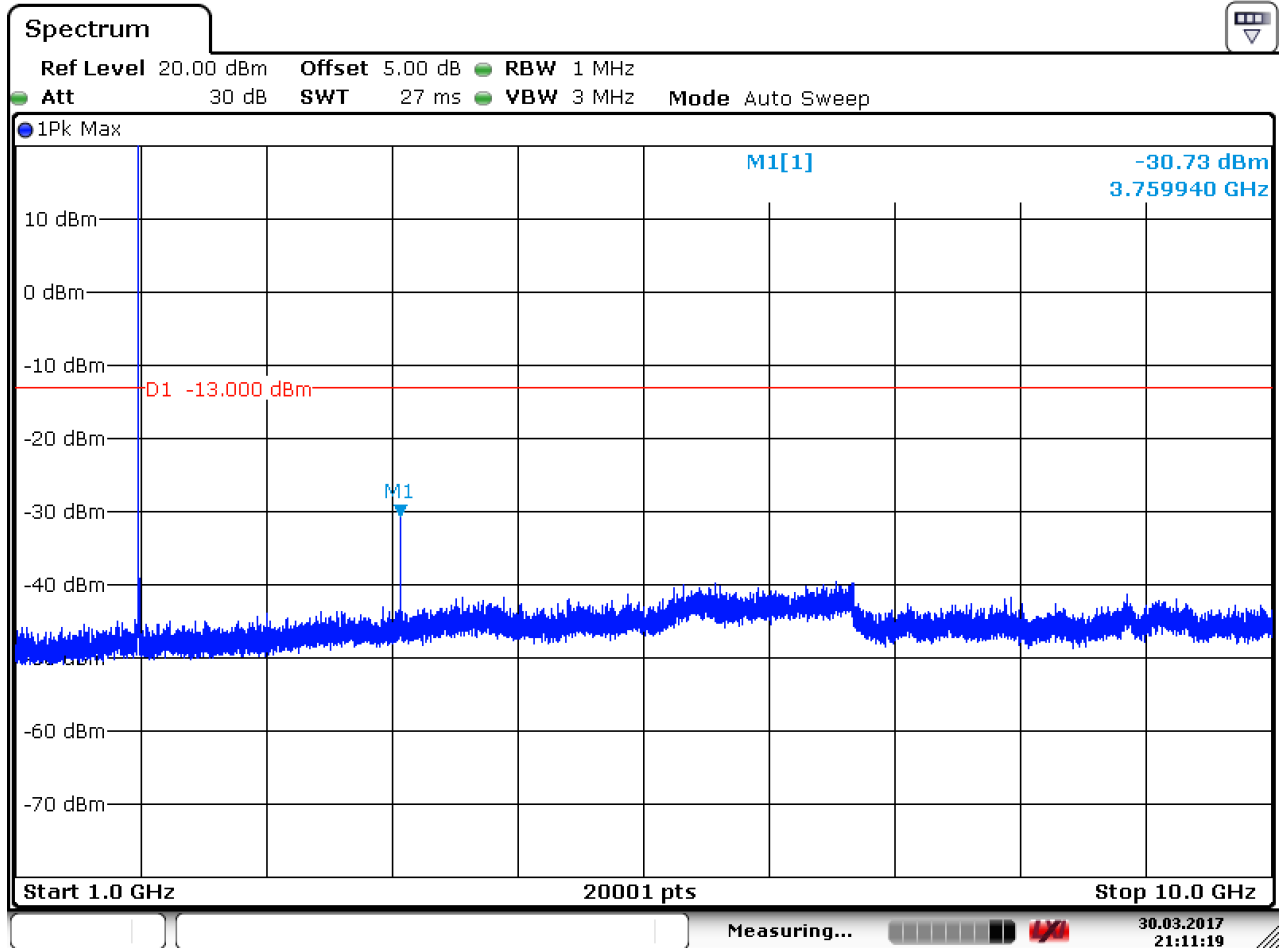


6.1.2.1.2 Test Channel = MCH



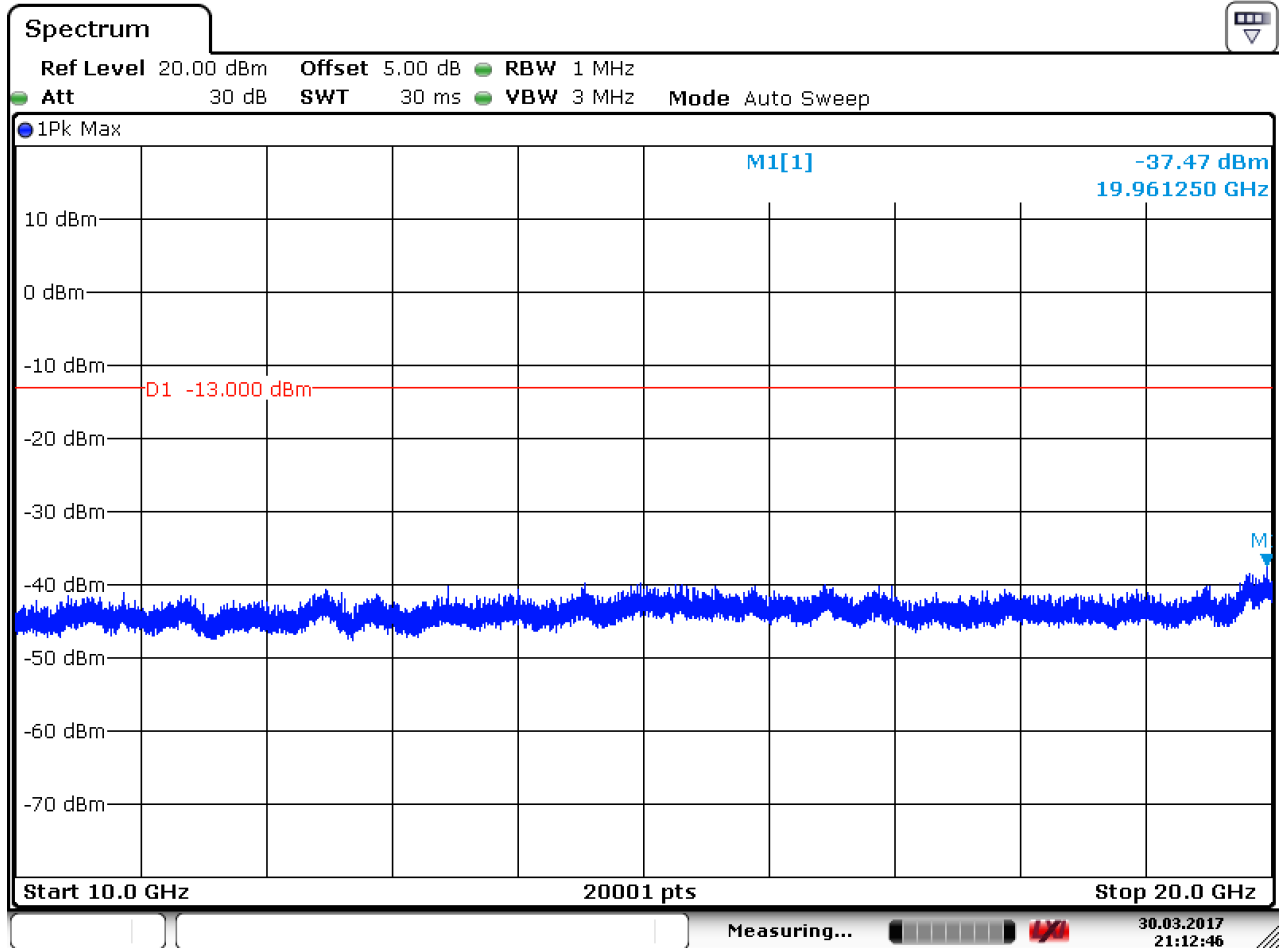
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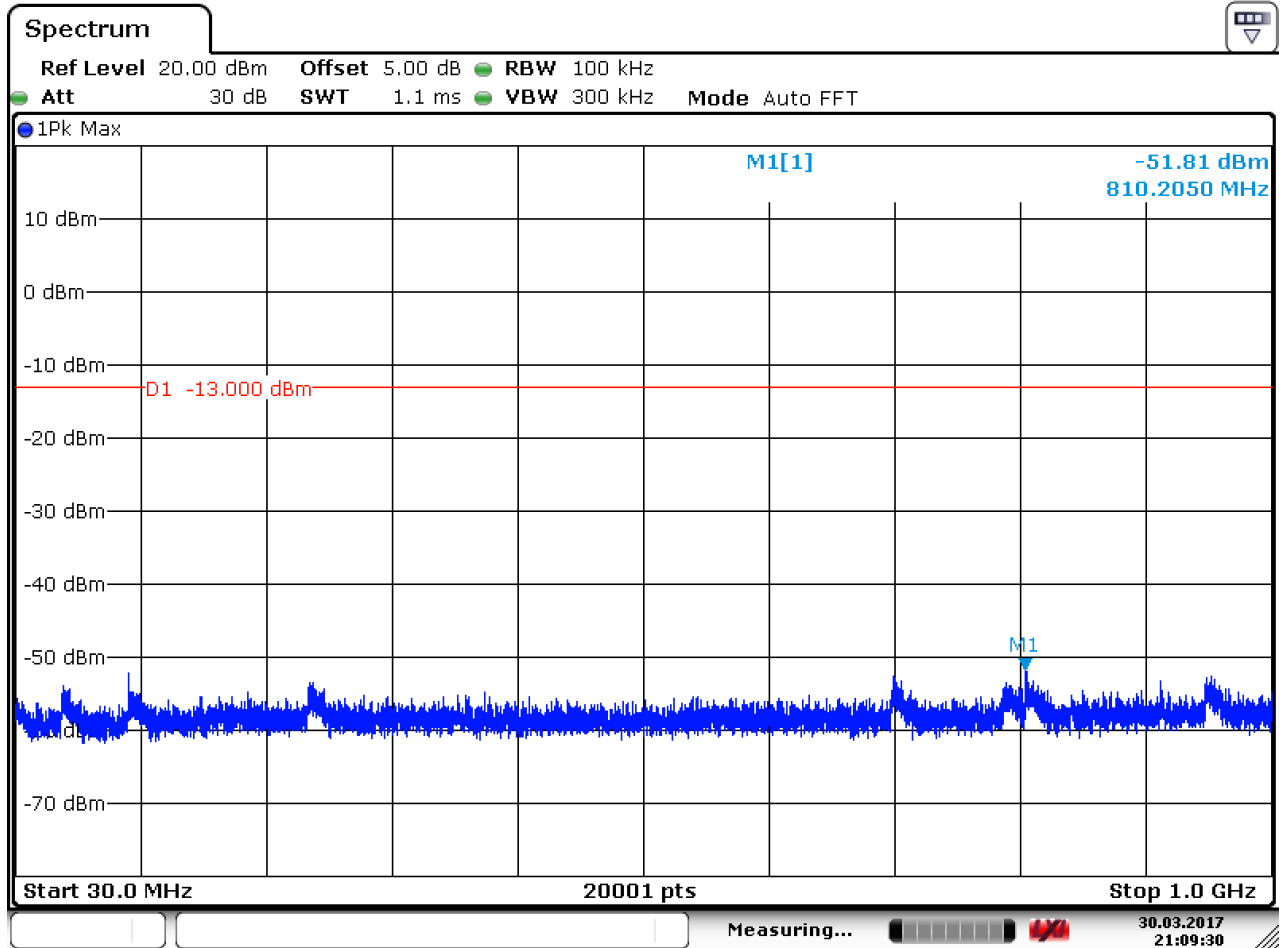


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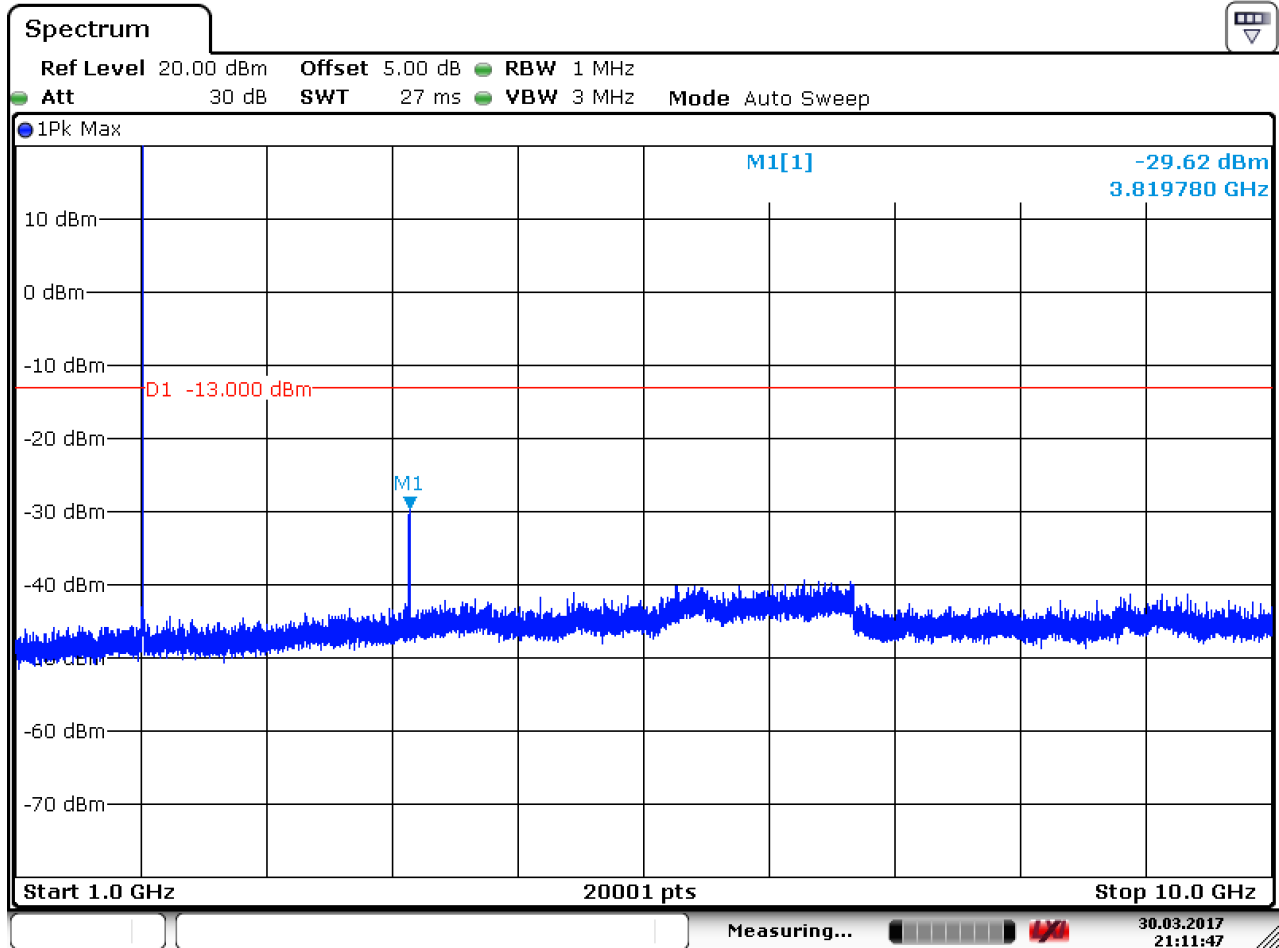


6.1.2.1.3 Test Channel = HCH



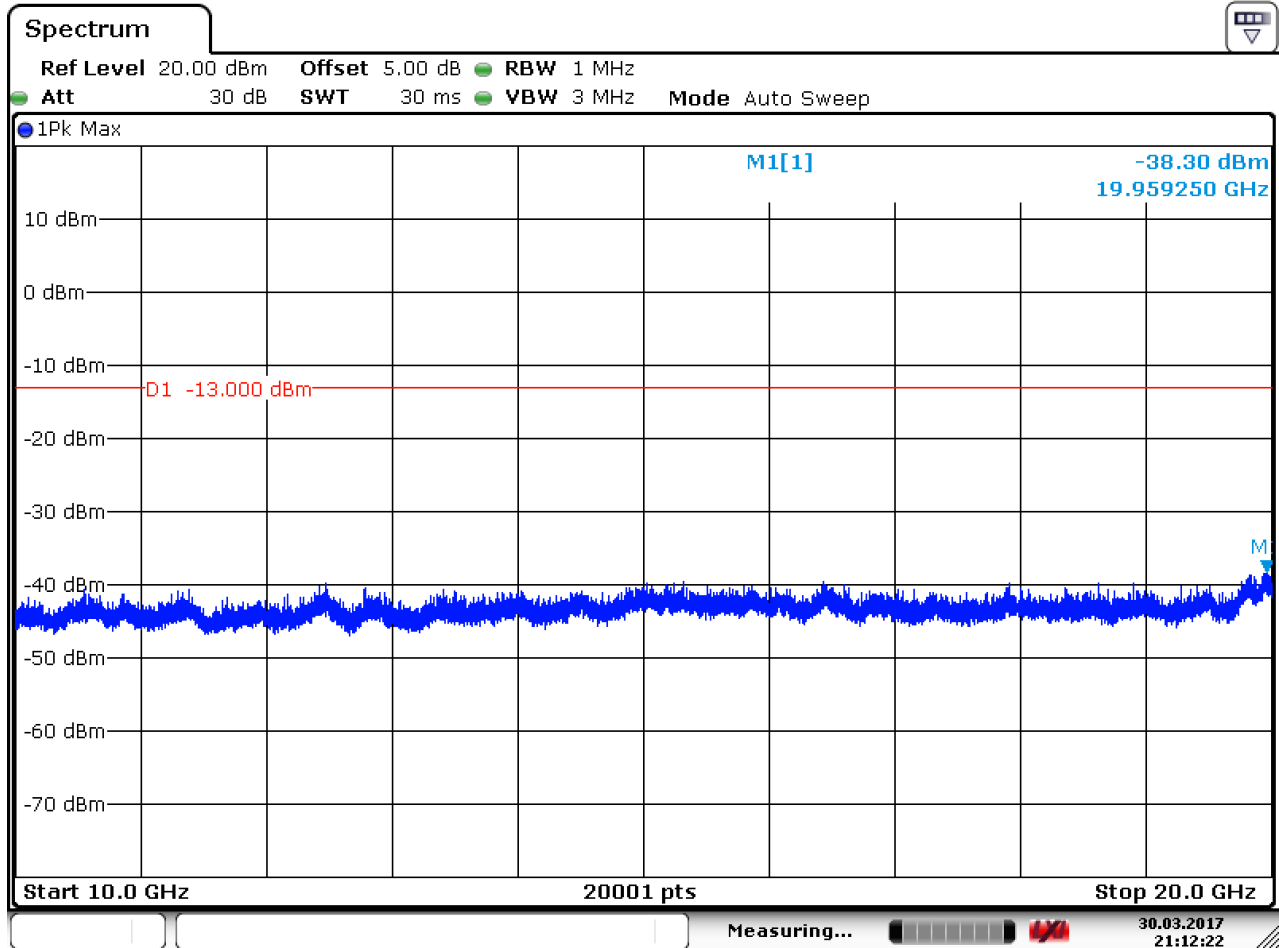
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7 Field Strength of Spurious Radiation

Part I - Test Plots

7.1 For GSM

7.1.1 Test Band = GSM 850

7.1.1.1 Test Mode = GSM/TM1

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1503.750	-50.60	-13.00	-37.60	Vertical
2524.500	-42.02	-13.00	-29.02	Vertical
4015.875	-51.23	-13.00	-38.23	Vertical
1483.333	-51.12	-13.00	-38.12	Horizontal
2529.000	-44.00	-13.00	-31.00	Horizontal
4870.500	-52.01	-13.00	-39.01	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1586.250	-49.63	-13.00	-36.63	Vertical
2418.000	-42.12	-13.00	-29.12	Vertical
4203.375	-50.05	-13.00	-37.05	Vertical
1593.000	-49.33	-13.00	-36.33	Horizontal
2487.750	-42.18	-13.00	-29.18	Horizontal
4302.375	-50.74	-13.00	-37.74	Horizontal

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1559.250	-49.78	-13.00	-36.78	Vertical
2415.000	-40.48	-13.00	-27.48	Vertical
4179.000	-51.05	-13.00	-38.05	Vertical
1507.500	-50.07	-13.00	-37.07	Horizontal
2412.000	-41.04	-13.00	-28.04	Horizontal
4392.000	-52.49	-13.00	-39.49	Horizontal



7.1.2 Test Band = GSM 1900

7.1.2.1 Test Mode = GSM/TM1

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
707.000	-59.19	-13.00	-46.19	Vertical
2771.295	-41.76	-13.00	-28.76	Vertical
4251.375	-50.87	-13.00	-37.87	Vertical
698.000	-59.91	-13.00	-46.91	Horizontal
1130.333	-52.83	-13.00	-39.83	Horizontal
2798.550	-42.21	-13.00	-29.21	Horizontal

7.1.2.1.1 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1359.266	-51.87	-13.00	-38.87	Vertical
2067.405	-47.16	-13.00	-34.16	Vertical
4246.875	-51.61	-13.00	-38.61	Vertical
1330.933	-51.68	-13.00	-38.68	Horizontal
4029.3750	-52.11	-13.00	-39.11	Horizontal
5478.000	-49.80	-13.00	-36.80	Horizontal

7.1.2.1.2 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1282.200	-51.37	-13.00	-38.37	Vertical
2695.455	-40.87	-13.00	-27.87	Vertical
4183.875	-51.83	-13.00	-38.83	Vertical
1290.133	-53.77	-13.00	-40.77	Horizontal
2779.590	-41.85	-13.00	-28.85	Horizontal
4271.250	-50.58	-13.00	-37.58	Horizontal

NOTE:

- 1) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM 850	GSM/TM1	LCH	TN	VL	3.04	0.00369	PASS
				VN	1.97	0.00239	PASS
				VH	-2.64	-0.00320	PASS
		MCH	TN	VL	5.32	0.00636	PASS
				VN	3.00	0.00359	PASS
				VH	-0.45	-0.00054	PASS
		HCH	TN	VL	1.44	0.00170	PASS
				VN	4.33	0.00510	PASS
				VH	-2.08	-0.00245	PASS
	GSM/TM2	LCH	TN	VL	1.54	0.00187	PASS
				VN	3.65	0.00443	PASS
				VH	0.43	0.00052	PASS
		MCH	TN	VL	-5.43	-0.00649	PASS
				VN	4.23	0.00506	PASS
				VH	3.44	0.00411	PASS
		HCH	TN	VL	-4.32	-0.00509	PASS
				VN	1.87	0.00220	PASS
				VH	2.04	0.00240	PASS



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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM 1900	GSM/TM1	LCH	TN	VL	0.44	0.00024	PASS
				VN	4.25	0.00230	PASS
				VH	2.75	0.00149	PASS
		MCH	TN	VL	-2.87	-0.00153	PASS
				VN	5.32	0.00283	PASS
				VH	1.74	0.00093	PASS
		HCH	TN	VL	-5.39	-0.00282	PASS
				VN	2.45	0.00128	PASS
				VH	3.69	0.00193	PASS
	GSM/TM2	LCH	TN	VL	1.94	0.00105	PASS
				VN	5.23	0.00283	PASS
				VH	-2.44	-0.00132	PASS
		MCH	TN	VL	4.38	0.00233	PASS
				VN	1.34	0.00071	PASS
				VH	2.37	0.00126	PASS
		HCH	TN	VL	-4.45	-0.00233	PASS
				VN	-2.43	-0.00127	PASS
				VH	1.99	0.00104	PASS

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8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM 850	GSM/TM1	LCH	VN	-30	-2.73	-0.00331	PASS
				-20	1.60	0.00194	PASS
				-10	3.67	0.00445	PASS
				0	-2.18	-0.00264	PASS
				10	3.56	0.00432	PASS
				20	-4.80	-0.00582	PASS
				30	1.40	0.00170	PASS
				40	-0.74	-0.00090	PASS
				50	-5.01	-0.00608	PASS
		MCH	VN	-30	-3.80	-0.00454	PASS
				-20	-5.08	-0.00607	PASS
				-10	-0.89	-0.00106	PASS
				0	-3.38	-0.00404	PASS
				10	1.37	0.00164	PASS
				20	2.52	0.00301	PASS
				30	4.61	0.00551	PASS
				40	0.73	0.00087	PASS
				50	-4.35	-0.00520	PASS
		HCH	VN	-30	-2.17	-0.00256	PASS
				-20	3.68	0.00434	PASS
				-10	2.25	0.00265	PASS
				0	-5.42	-0.00639	PASS
				10	1.59	0.00187	PASS
				20	-2.58	-0.00304	PASS
				30	3.64	0.00429	PASS
				40	-2.63	-0.00310	PASS
				50	-4.27	-0.00503	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM 850	GSM/TM2	LCH	VN	-30	-5.49	-0.00666	PASS
				-20	2.96	0.00359	PASS
				-10	-4.37	-0.00530	PASS
				0	0.70	0.00085	PASS
				10	-4.65	-0.00564	PASS
				20	-4.71	-0.00571	PASS
				30	-3.58	-0.00434	PASS
				40	-5.66	-0.00687	PASS
				50	-2.74	-0.00332	PASS
		MCH	VN	-30	-1.94	-0.00232	PASS
				-20	3.29	0.00393	PASS
				-10	-4.34	-0.00519	PASS
				0	1.78	0.00213	PASS
				10	-5.10	-0.00610	PASS
				20	-3.33	-0.00398	PASS
				30	-2.13	-0.00255	PASS
				40	-3.09	-0.00369	PASS
				50	-1.50	-0.00179	PASS
		HCH	VN	-30	-2.25	-0.00265	PASS
				-20	-6.34	-0.00747	PASS
				-10	-2.73	-0.00322	PASS
				0	-5.88	-0.00693	PASS
				10	1.07	0.00126	PASS
				20	-4.03	-0.00475	PASS
				30	-3.12	-0.00368	PASS
				40	-2.84	-0.00335	PASS
				50	-5.07	-0.00597	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM 1900	GSM/TM1	LCH	VN	-30	-3.23	-0.00175	PASS
				-20	-5.25	-0.00284	PASS
				-10	1.94	0.00105	PASS
				0	-3.45	-0.00186	PASS
				10	-2.53	-0.00137	PASS
				20	1.68	0.00091	PASS
				30	-3.59	-0.00194	PASS
				40	-5.30	-0.00286	PASS
				50	-2.34	-0.00126	PASS
		MCH	VN	-30	-4.92	-0.00262	PASS
				-20	1.47	0.00078	PASS
				-10	-2.43	-0.00129	PASS
				0	3.54	0.00188	PASS
				10	-3.25	-0.00173	PASS
				20	-1.59	-0.00085	PASS
				30	-3.27	-0.00174	PASS
				40	-7.13	-0.00379	PASS
				50	-5.12	-0.00272	PASS
		HCH	VN	-30	-3.75	-0.00196	PASS
				-20	6.63	0.00347	PASS
				-10	1.85	0.00097	PASS
				0	-2.37	-0.00124	PASS
				10	-3.08	-0.00161	PASS
				20	-4.16	-0.00218	PASS
				30	1.33	0.00070	PASS
				40	-2.72	-0.00142	PASS
				50	-4.28	-0.00224	PASS

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GSM 1900	GSM/TM2	LCH	VN	-30	-3.55	-0.00192	PASS
				-20	-4.23	-0.00229	PASS
				-10	1.68	0.00091	PASS
				0	-2.88	-0.00156	PASS
				10	-2.65	-0.00143	PASS
				20	-4.48	-0.00242	PASS
				30	1.07	0.00058	PASS
				40	-2.21	-0.00119	PASS
		MCH	VN	-30	-5.42	-0.00288	PASS
				-20	-2.34	-0.00124	PASS
				-10	-4.42	-0.00235	PASS
				0	1.89	0.00101	PASS
				10	-5.15	-0.00274	PASS
				20	-2.52	-0.00134	PASS
				30	-3.07	-0.00163	PASS
				40	0.33	0.00018	PASS
		HCH	VN	-30	-3.25	-0.00170	PASS
				-20	2.43	0.00127	PASS
				-10	1.45	0.00076	PASS
				0	-5.30	-0.00278	PASS
				10	-3.51	-0.00184	PASS
				20	-4.37	-0.00229	PASS
				30	-2.37	-0.00124	PASS
				40	-1.42	-0.00074	PASS
				50	-6.06	-0.00317	PASS

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